

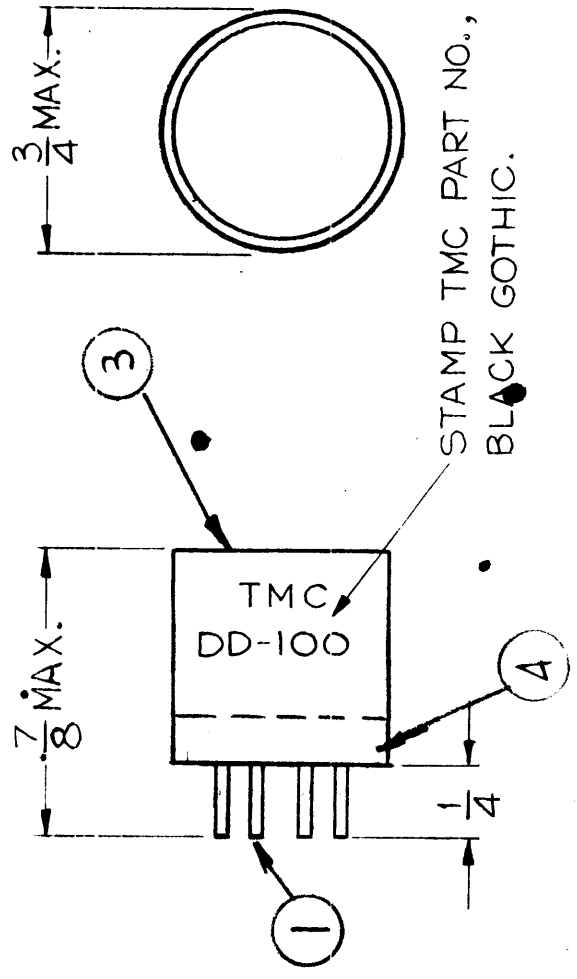
DD-100-D

PLEASE NO PERSONS RECEIVING THIS DRAWING  
 THE TECHNICAL MATERIAL CORPORATION  
 MAMARONECK, NEW YORK

THE TECHNICAL MATERIAL CORPORATION  
 MAMARONECK, NEW YORK

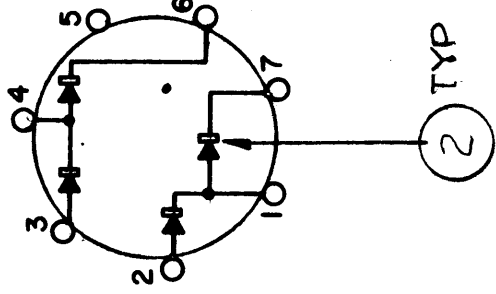
REV. ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	OBsolete NOTE DEL PART LIST ADDED	10-12-75	21286	G.D.	[Signature]	[Signature]
A	OBsolete ADD.	1/3/74	21094	RE	[Signature]	[Signature]

TOLERANCES  
 DEC. DIM. ±  
 FRAC. DIM. ±  
 ANGULAR DIM. ±



STAMP TMC PART NO.,  
 BLACK GOTHIC.

(NOT TO SCALE)



SCHEMATIC DIAGRAM  
 (BOTTOM VIEW)

**ELECTRICAL SPECIFICATIONS**

RATINGS--ABSOLUTE MAXIMUM VALUES @ 25°C

- MAXIMUM CONTINUOUS WORKING VOLTAGE 80 VOLTS
- AVERAGE RECTIFIED CURRENT 30 MA
- PEAK RECTIFIED CURRENT 90 MA
- SURGE CURRENT FOR 1 SECOND 300 MA
- AMBIENT TEMPERATURE RANGE -60° TO +90°C
- MAXIMUM POWER DISSIPATION AT 25°C 80 MW

CHARACTERISTICS-- @ 25°C

- MAXIMUM REVERSE CURRENT @ -5 V ~ 5 μA
- MAXIMUM REVERSE CURRENT @ -50V ~ 50 μA
- MAXIMUM FORWARD CURRENT +1V ~ 4ma
- MAXIMUM SHUNT CAPACITANCE @ -10V ~ 1 μmf
- MINIMUM REVERSE VOLTAGE FOR ZERO DYNAMIC RESISTANCE 100 VOLTS

MATCHED FOR MAX. DEVIATION OF ALL FOUR DIODES NOT TO EXCEED

5-MV @ 2 MA 25°C  
 \* MAX. LEAKAGE CURRENT AT 50V (25°C) 30 MA  
 \*\*\*NOTE--THESE VALUES ARE FOR EACH DIODE

X	4	GL137	ADHESIVE
1	3	BX 204-1	CASE
4	2	IN 67A	SCOND DEV, DIO, MATCHED SET
1	1	PO261-1	BASE

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		DIODE, GERMANIUM, MATCHED	

J.C. Biele	AS	DD-100	B
TYPE & TEMPER	HEAT TREAT. PEC.	CHECKED	FINAL APPROVAL
FINI. H. & SPEC. NO.	ELEC. DES. APP. MECH. DE. APP.		

TMC PART NO.	PEAK REV. VOLT PER LEG	RMS VOLT PER LEG (MAX) (INPUT)	DC OUTPUT VOLT (MAX)	DC OUTPUT CURRENT (MAX)	ELECTRICAL SPECS (AT 25 C)		
					FWD VOLT DROP PER LEG	RECURRENT PEAK CURRENT	OPER. TEMP. RANGE (C)
DD-108-1	3000	2100	1890	500 MA	6V	3A	-55 to +125
							10 UA

**REVISIONS**

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
A	DWG UPDATED	7/11/63	10531			

.160 DIA. MTG HOLE

TMC DD-108-1

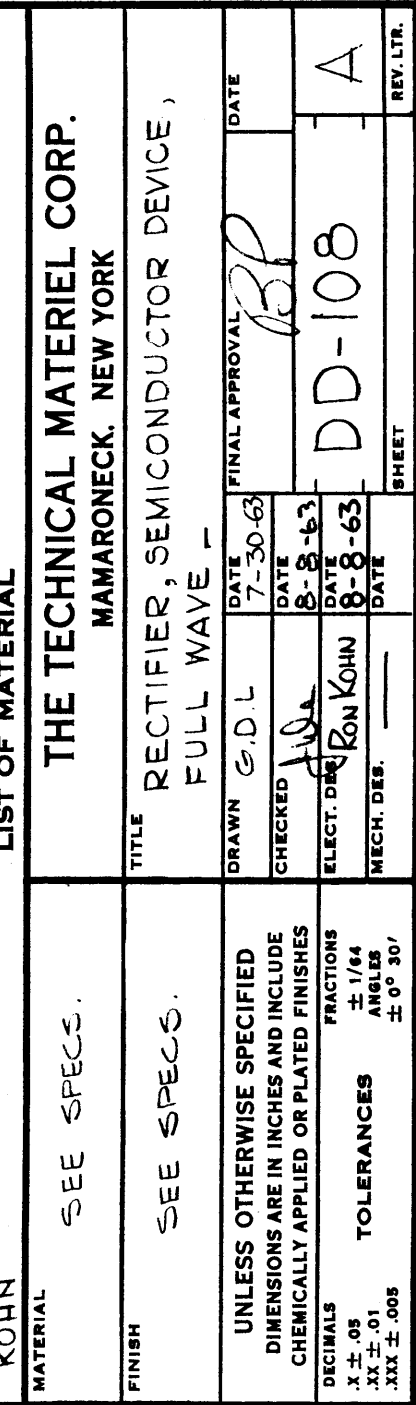
MARKING (SEE SPEC. 5)

SPF HV 30RK

MARKING (SEE SPEC. 5)

**SPECIFICATIONS**

- INDIVIDUAL SEMICONDUCTOR DATA
  - QUAN: 4
  - MATERIAL: SILICON
- CASE DATA
  - MATERIAL: EPOXY (SILICA FILLED)
  - FINISH: NONE
  - COLOR: BLACK
- TERMINAL DATA
  - QUAN: 4
  - TYPE: SOLDER STUD (CAMBION 1011 OR EQUIV)
  - MATERIAL: BRASS
  - FINISH: SILVER PLATE & WATER DIP LACQUER
- CONSTRUCTION
  - HERMETICALLY SEALED
- MARKING
  - ALL LETTERING TO BE 3/32 HIGH WHITE GOTHIC AS PER TMC SPEC S727
  - INPUT TERMINALS SHALL BE MARKED "AC" OR SIGNIFIED BY YELLOW DOTS.
  - OUTPUT TERMINALS SHALL BE MARKED "+" & "-" OR RED DOT INSTEAD OF "+".
  - MFRS. NO. SHALL BE MARKED ON SIDE OF UNIT (PER CHART)
  - TMC INITIALS & PART NO. (PER CHART) SHALL BE MARKED ON TERMINAL END AS SHOWN.
- ELECTRICAL SPECS
  - SEE CHART
  - SEE DETAIL
  - CIRCUIT: SINGLE PHASE, FULL WAVE BRIDGE



**LIST OF MATERIAL**

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
	KOHN		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			RECTIFIER, SEMICONDUCTOR DEVICE, FULL WAVE -	

DATE	FINAL APPROVAL	DATE
7-30-63		
8-8-63		
8-8-63		

DRAWN: G.D.L.      CHECKED: J.K.      ELECT. DES: RON KOHN      MECH. DES.:

DD-108

REV. LTR.      SHEET

**NOTES**

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Q'TY./UNIT	MODEL USED ON	ASSY. NO.
1	TTR-10	AX-413

SCALE	CODE
1:1	S401-255 (DR30572B) S401-178 (SPFHY-30RK)

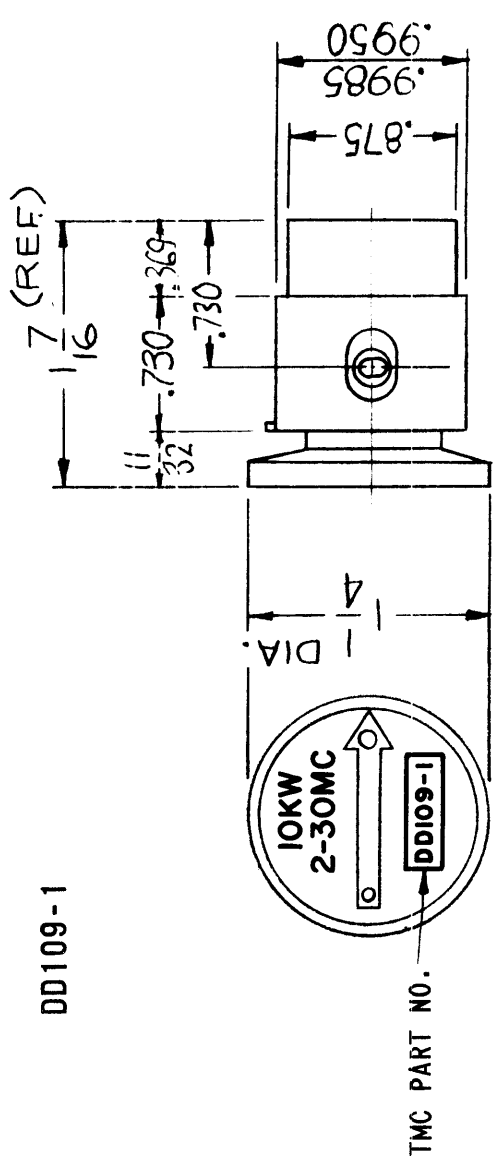
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4

3

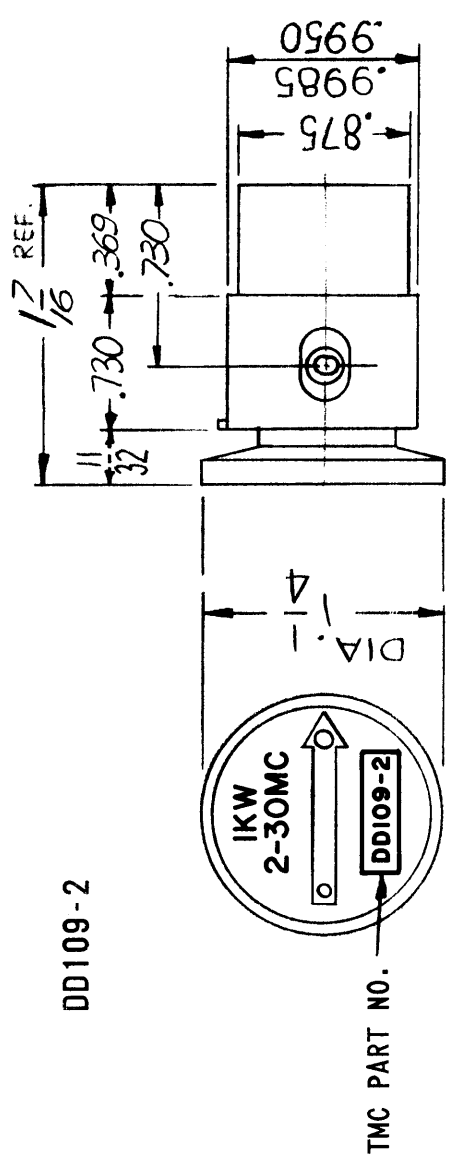
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1



DD109-1

TMC PART NO.



DD109-2

TMC PART NO.

NOTE:

DIODES ARE USED FOR SPARE PARTS ONLY, THEY ARE NORMALLY SUPPLIED WITH COUPLER TMC #DC104

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	E.M.N.O	DRAFT	CHKD	APPD
D		REV & REDRAWN FR 1'SZ	7-20-61	18286	WHD		
E		ON DD109-2 17/16 WAS 19/32 .369 WAS .520; .730 WAS .881	11/2/68	19112	LH		

SPECIFICATIONS

FREQUENCY RANGE: 2-30 MHZ  
 POWER RATING:  
 DD109-1: 10 KW AV, TWO TONE  
 DD109-2: 1 KW AV, TWO TONE  
 COUPLER LINE SIZE: 1-5/8"  
 LINE IMPEDANCE: 50 OHMS  
 METER USED FOR CALIBRATION:  
 SENSITIVITY: 100 uA FS @ RATED POWER  
 RESISTANCE: 1825 OHMS  
 CALIBRATION DATA: @ 10 MHZ  
 ACCURACY: ±5% @ CAL. POWER

LINE POWER	DD109-1	DD109-2
5 KW CW		500 W CW
76.9 uA SINGLE TONE		76.9 uA SINGLE TONE
67.4 uA TWO TONE		67.4 uA TWO TONE
1825 OHMS		1825 OHMS

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
F	BUDETTI		LIST OF MATERIAL	

FINAL APPROVAL	DATE	MECH. DES.	ELECT. DES.	CHECKED	DRAWN	DATE	DATE	DATE	DATE
RDC		JB	LB	JCB	J.C. BIELE	10/10/63			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FRACTIONS 1/64
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	TOLS. ANGLES 0° .30'
MATERIAL	FINISH

KIT 161	ASS'Y NO.
GPT-10K	
MODEL USED ON	
APPLICATION	
CODE C	S401-164

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THE TECHNICAL MATERIEL CORP.	ISSUE
MAMARONECK, NEW YORK	E
DETECTING ELEMENT	
DIRECTIONAL COUPLER	
SIZE B	CODE IDENT. NO. DD109
SCALE 1:1	DWG NO. DD109
SHEET	OF

A

5

4

3

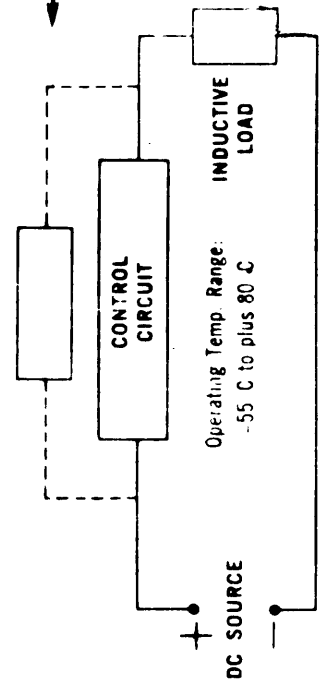
2

1

# STANDARD DRAWING

SOLENOID SIZE	COIL AWG.	DUTY CYCLE											
		Continuous		1/4		1/2		3/4		1 1/4		1 1/2	
		Volts	TMC SUFFIX	Volts	TMC SUFFIX	Volts	TMC SUFFIX	Volts	TMC SUFFIX	Volts	TMC SUFFIX	Volts	TMC SUFFIX
1	33	15	002	18	002	28	002	41	002	41	002	41	002
1	36	32	002	39	002	56	004	88	004	88	004	88	004
1	38	48	002	57	004	80	004	126	004	126	004	126	004
2	30	9	002	10	002	18	002	28	002	28	002	28	002
2	32	14	002	16	002	20	002	28	002	45	002	45	002
2	35	28	002	32	002	39	002	56	004	89	004	89	004
2	37	45	002	51	002	63	004	89	004	142	004	142	004
3	28	8.4	002	9.7	002	12	002	17	002	26	002	26	002
3	29	10	002	12	002	15	002	21	003	33	003	33	003
3	31	17	002	19	002	24	002	33	002	53	002	53	002
3	34	33	002	38	002	47	002	67	004	106	004	106	004
3	36	53	002	61	004	75	004	106	004	167	004	167	004
4	28	13	002	15	002	18	002	26	002	42	002	42	002
4	31	27	002	31	002	38	002	54	002	85	004	85	004
4	33	43	002	50	002	60	004	86	004	138	004	138	004
5	25	9.5	002	11	002	13	002	19	002	30	003	30	003
5	26	12	002	14	002	17	002	24	002	38	003	38	003
5	27	15	002	17	002	21	002	30	002	48	003	48	003
5	30	30	002	34	002	43	002	60	004	95	004	95	004
5	31	38	002	43	002	54	002	76	004	120	004	120	004
5	32	48	002	56	004	67	004	95	004	150	004	150	004
6	24	13	002	15	002	18	002	26	003	41	003	41	003
6	27	26	002	30	002	37	002	52	002	83	004	83	004
6	29	41	002	48	002	59	004	83	004	131	004	131	004
7	22	13	002	15	002	18	003	26	003	41	003	41	003
7	25	26	002	30	002	37	003	52	003	83	003	83	003
7	27	41	002	47	002	59	004	83	004	132	004	132	004
8	21	15	002	17	003	22	003	30	003	47	003	47	003
8	24	30	002	35	002	44	004	61	004	83	004	83	004
8	26	49	002	56	004	70	004	97	004	152	004	152	004

When selecting suppressors for coils other than those shown in the chart, note that the DC source voltage should not exceed the maximum voltage rating of the suppressor. In an unfiltered rectified circuit, the peak value may be estimated by multiplying the average DC voltage by 1.5. For example, a full wave silicon bridge rectifier has an average output of 100 volts DC. The value of the suppressor, therefore, should be 150 volts or more.



Schematic for suppressors DD121-001 thru 004 (connect in parallel with control circuit). Suppressor is non-polarized.

Suffix	001	002	003	004
Max. Voltage Rating (DC)	170	55 (below 2 amps)	55 (above 2 amps)	110

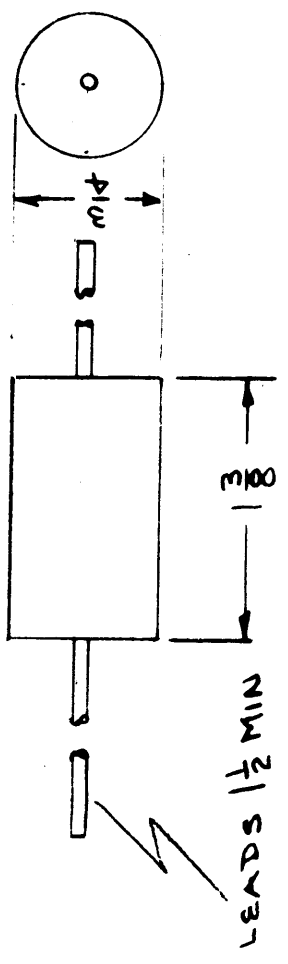
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QTY./UNIT	SCALE	MODEL USED ON	ASBY. NO.
#		5401-281	
		(12103-)	

SYM	DESCRIPTION	DATE	EM.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	5/19/64		DR		
A	COMPLETELY REVISED	5/25/64		DR		

DD121



TMC PART NUMBER SHALL BE IN THE FOLLOWING FORM:

DD121-003  
 BASIC PART NUMBER SUFFIX (SEE CHART)

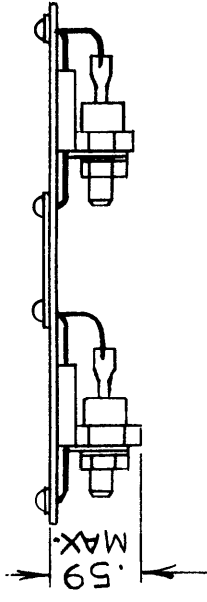
REC D	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
		BUDETTI	LIST OF MATERIAL	
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			SUPPRESSOR	
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
			DECIMALS ± .005	
			FRACTIONS ± 1/64	
			ANGLES ± .01	
			TOLERANCES ± .005	
			DRAWN DATE 5-25-64	
			CHECKED DATE 5/25/64	
			ELECT. DES. DATE 5/25/64	
			MECH. DES. DATE 5/25/64	
			FINAL APPROVAL DATE 5/25/64	
			DD121	A
			SHEET	1

# STANDARD DRAWING

REVISIONS		DATE	E.M.N. NO.	DRAFT	CHKD	APPD
SYM	DESCRIPTION					
Ø	ORIGINAL RELEASE FOR PRODUCTION	7-9-65	Ø	H.K.F.		
A	REVISED NOTE 1 COMPLETELY	7-12-66	16588	H.K.A.	J.P.B.	H.A.

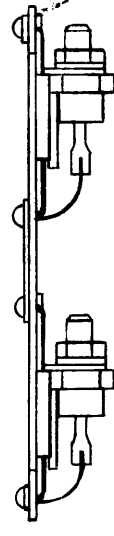
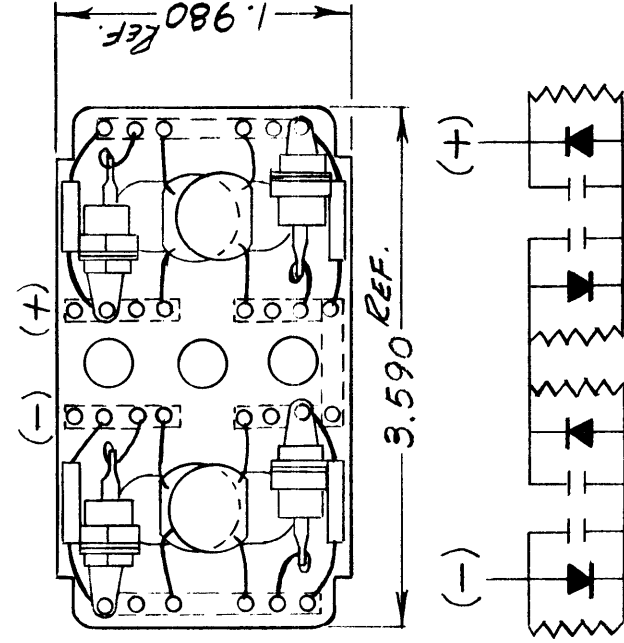
DD125

TMC PART No.	USED ON	SEMI COND. No.	RESISTORS	CAPACITORS
DD125-1	DD117	441B-E	470KΩ 1W	0.01µf 1KV
DD125-2	DD118	368B-D	470KΩ 1W	0.01µf 1KV

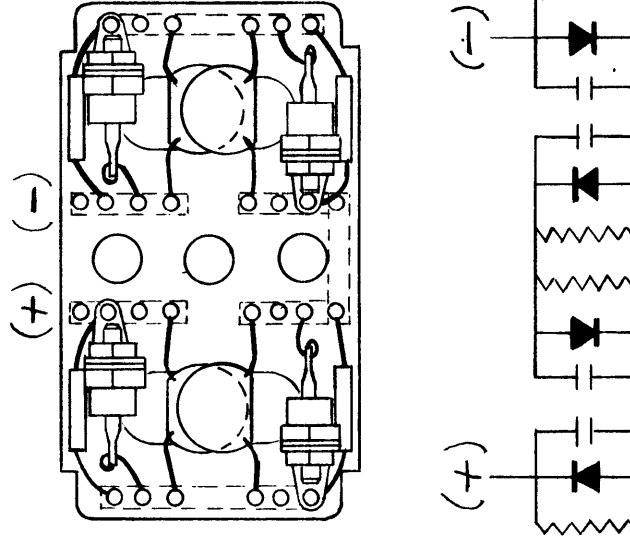


TOP MARKED YELLOW

- NOTES**
- FOR INFORMATION ONLY. USE AS REPLACEMENT PART WILL VOID THE GUARANTEE ON DD117 & DD118.
  - DIMENSIONS SHOWN FOR YELLOW BOARD ARE TYPICAL FOR RED BOARD ALSO.



TOP MARKED RED



REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
	BUDETTI		LIST OF MATERIAL	
MATERIAL				
FINISH				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES				
DECIMALS				
.X ± .05				
.XX ± .01				
.XXX ± .005				
FRACTIONS				
± 1/64				
ANGLES				
± 0° 30'				
TOLERANCES				
± .005				
TITLE				
BOARD, MODULE				
DRAWN H. Austin				
CHECKED J.P.B.				
ELECT. DES. J.P.B.				
MECH. DES. J.P.B.				
DATE	DATE	DATE	DATE	DATE
7-8-65	7-9-65	7-9-65	7-9-65	7-9-65
FINAL APPROVAL				DATE
DD125				7-9-65
A				
REV. LTR.				

QTY./UNIT	MODEL USED ON	ASSY. NO.
SCALE	CODE	
	C	S401-329

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**NOTES**

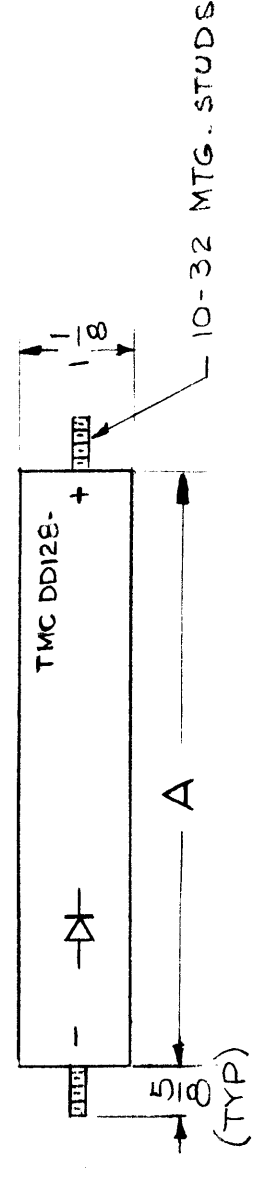
# STANDARD DRAWING

TMC PART NO	MFG. PART NO.	NO. OF DIODES	*A* DIM.	MAX. PEAK REV. WORK. VOLT	REVERSE AVALANCHE BREAKDOWN VOLTS	MAX. FULL LOAD REV. CURRENT, FULL CY. AVG. @ TA = 50°C	MAX. NON-REPET. REV. POWER (AVALANCHE CONDITION) SQUARE WAVE PULSE 104.5 SEC DURATION	MAX. AVG. RECT. CURRENT @ TA = 50°C	MAX. FORWARD VOLT DROP @ IDc = 4A TA = 25°C
DD128-1	TM1-84-X130	8	6 1/4	6400	MIN. 7200 MAX. 9600	2 MA.	40 KW	2.6 A	9.6 V
DD128-2	TM2-12K-X150	12	9 1/4	12000	13200/16800	2 MA.	60 KW	2.8 A	14.4 V
DD128-3	TM2-15K-X154	15	11 1/2	15000	16500/21000	2 MA.	75 KW	2.8 A	18.0 V
DD128-4	TM2-21K-X154	21	14 13/16	21000	23100/29400	2 MA.	105 KW	2.8 A	25.2 V

TYPE: AVALANCHE DIODE, SINGLE PHASE, HALF WAVE  
 PEAK FORWARD SURGE OVERLOAD  
 CURRENT @ RATED LOAD, ONE  
 CYCLE AVERAGE @ 60cps: 400 AMPS  
 AMBIENT TEMPERATURE RANGE: -55°C TO +125°C  
 COOLING: FREE AIR CONVECTION  
 MARKING: TMC PART NUMBER 1/8 HIGH GOTHIC, DIODE SYMBOL AND  
 POLARITY  
 MFG. DIODE TYPE: PZ140H

### SPECIFICATIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	9/27/65	Ø	J.V.V.		
A	5/8 WAS 1/2	5.5.66	16218	WAS		
B	ADDED - 2,3,4, GPT10K ( ), BCT10KA ADDED	6-27-67	18324	L.A.K.		



REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
			LIST OF MATERIAL	
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			RECTIFIER, SEMI CONDUCTOR DEVICE	
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
			TOLERANCES	
			DECIMALS ± .05	
			FRACTIONS ± 1/64	
			ANGLES ± 0° 30'	
			ANGLES ± .005	

GPT10K ( )		
BCT10KA		
TSTA - 2.5K		
QTY./UNIT	MODEL USED ON	ASSY. NO.
SCALE 1:2	CODE C	5401-404

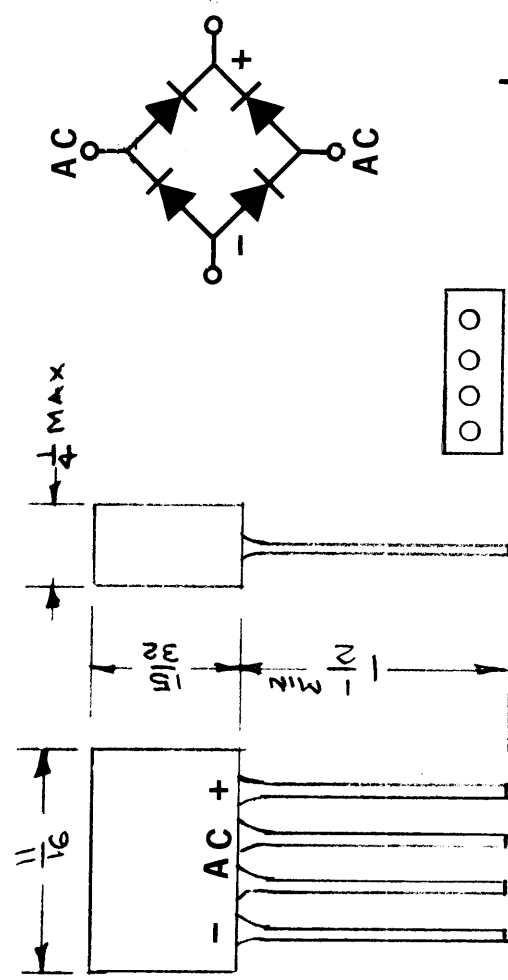
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# STANDARD DRAWING

CHART I VOLTAGE	
PEAK REVERSE VOLTS	RMS INPUT VOLTS
200	140
600	420
1000	700

CHART II OUTPUT CURRENT			
DC OUTPUT CURRENT MAX @ 25°C AMPS.	MFG. A TYPE	PEAK ONE - CYCLE SURGE CURRENT AMPS.	PEAK RECURRENT FORWARD CURRENT @ 25°C. AMPS
1.5	FWL (FW)	35	5
3.0	FWLB (FWLB)	35	8
4.0	FWLC (FWLC)	50	10



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### REVISIONS

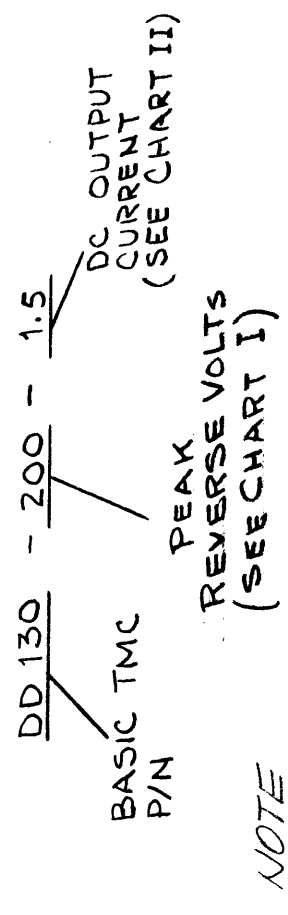
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAWN	CHKD	APPRD
Ø	ORIGINAL RELEASE FOR PRODUCTION	1-18-66	M	JC	JC	JC
A	COMPLETELY REVISED & REDRAWN	11-17-66	17270	RME	RME	RME
B	ADDED S401-402	7/7/69		GF	GF	GF
C	ADD NOTE DD-130	2/17/71	20238	EE	EE	EE

O M - A

### SPECIFICATIONS

OPERATING TEMP: -55°C TO 100°C.  
 DERATING: RATED CURRENT AT 25°C DERATING TO ZERO AT 100°C.  
 CASE: MOULDED PLASTIC  
 MARKING: LEADS TO BE MARKED AC, NEG. AND POS. SYMBOL, AND TMC PART NO.  
 LEADS: .032 - 1.5 AMP.  
 .051 - 3 & 4 AMP.

TMC P/N SHALL BE IN THE FOLLOWING FORM:



REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
			LIST OF MATERIAL	
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			TITLE	
			Semi Conductor, Rectifier, Bridge	

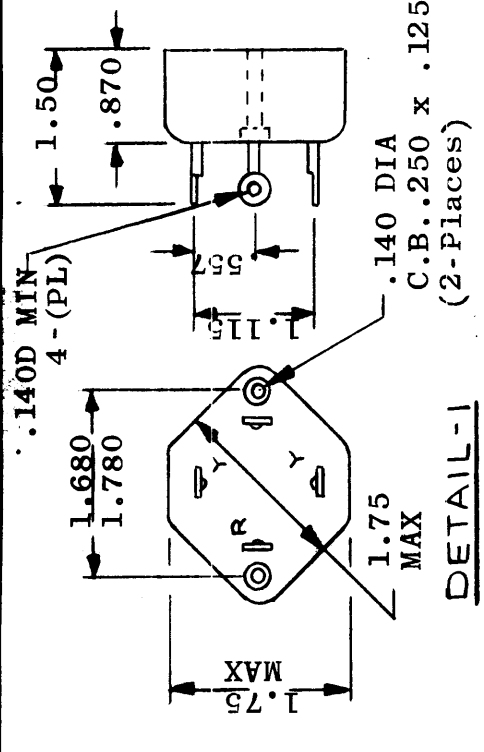
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CHECKED	DATE		
[Signature]	1-17-66		
ELECT. DESN	DATE		
[Signature]	1-18-66		
MECH. DESN	DATE		
[Signature]	1-18-66		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	DATE
DECIMALS	DD130
X ± .05	
.XX ± .01	
.XXX ± .005	
FRACTIONS ± 1/64	
ANGLES ± 0° 30'	

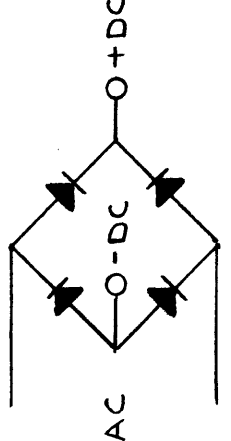
M/L 59 1/18/66

# STANDARD DRAWING



DETAIL-1

TMC Part Number	MFG Part Number	Detail	PRV Volts	RMS Input Volts	DC Output Volts	DC Output Current @55°C Ambient (Amps)	Peak Full Wave One Cycle Surge Current (60 cps) amps	Peak Full Wave Recurrent Forward Current (60 cps) amps	Peak Full Wave Recurrent Forward Current (60 cps) amps	Max Forward Volt. Drop Per Cell	Max Reverse Current Per Cell
DD131-200-10	MDA962-3	1	200	140	RES. Load 124 Cap. Load 200	10	250	60	60	1.0V. @5A.DC	1.0 MA.DC



SCHEMATIC  
DETAIL-1

Specifications-

Percentage of Rated DC Output: 50°C-100%  
 Per Ambient Temperature: 75°C-80%  
 100°C-55%  
 125°C-25%

Case: Molded Plastic

Polarity: AC Input-Yellow  
 + DC Output-Red  
 - DC Output-Not Marked

Mounting Position: Any

Stamp TMC Part No. On Side Opposite Terminals

TMC PART NUMBER SHALL BE SHOWN IN THE FOLLOWING FORM

DD131-200-10

Basic TMC PRV Forward Current  
 Part No

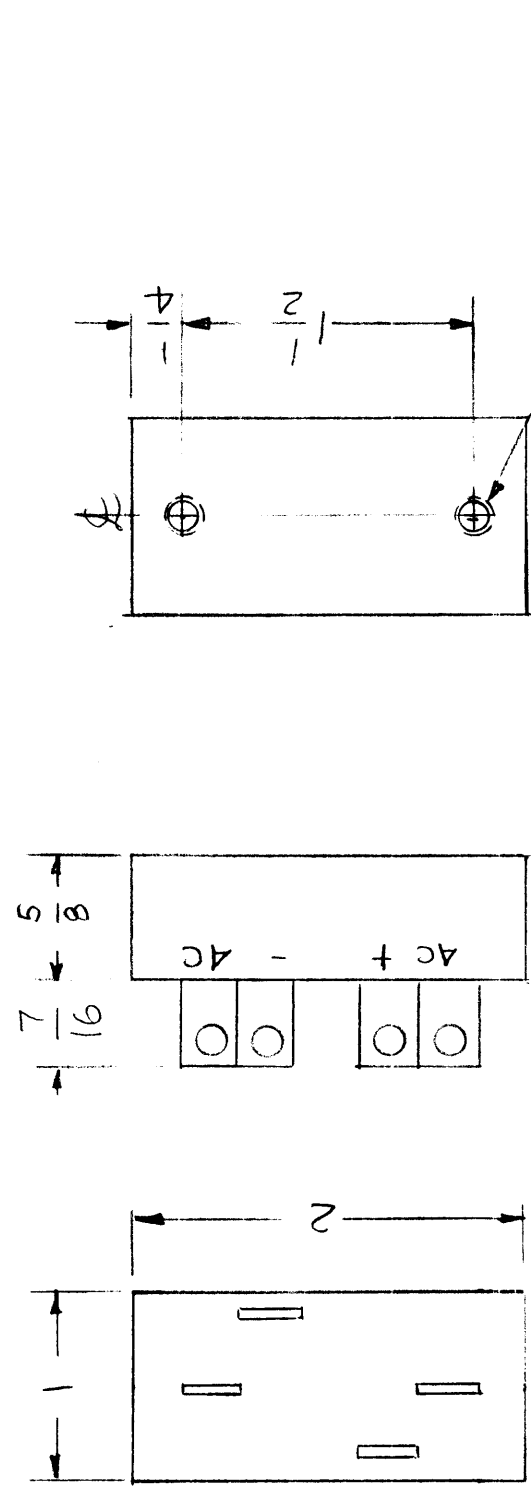
REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
<b>LIST OF MATERIAL</b>				
MATERIAL				
FINISH				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES				
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005				
FRACTIONS ± 1/64 ANGLES ± 0° 30'				
TOLERANCES ± 0° 30'				
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<b>NOTES</b>				
Q'TY./UNIT	MODEL USED ON	ASSY. NO.		
SCALE	CODE	S401-302		
DRAWN J. LESCHINSKI DATE 3/7/66 CHECKED FILE DATE 4/13/66 ELECT. DES. GA DATE 4/22/66 MECH. DES. DATE				
DATE 8/25/66 FINAL APPROVAL M. J. Ryan				
TITLE SEMI-CONDUCTOR, RECTIFIER BRIDGE THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
SHEET				
REV. LTR.				



1 2 3 4 5 D C B A

TMC PART NO DD 132-1	MFG. P/N ALL AMERICAN SEMICONDUCTOR	PRV OF DIODE 2.00	OUTPUT VOLTAGE 12B	INST. FORWARD VOLTAGE DECP 0 50 A, 25C 1.0 VOLTS	FORWARD CURRENT 40°C 20 AMPS	EMN NO A	DRAFT G.D.L.	CHKD G.D.L.	ZONE	LTR	DESCRIPTION ADD. SHEET 2 OF 2	DATE 2-13-91	APPROVED
-------------------------	--	----------------------	-----------------------	--	------------------------------------	-------------	-----------------	----------------	------	-----	----------------------------------	-----------------	----------

NOTE:  
SUPPLY WITH MS 7254  
PLATE MTG.



REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL			
FINAL APPROVAL	DATE	THE TECHNICAL MATERIEL CORP.	
MECH. DES.	DATE	MAMARONECK, NEW YORK	
ELECT. DES.	DATE	RECTIFIER, SEMI CONDUCTOR	
CHECKED	DATE	FULL WAVE BRIDGE	
DRAWN	DATE 1-31-91		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		SIZE	ISSUE
DECIMALS	FRACTIONS	B	A
.X ± .05	1/64	CODE IDENT. NO.	DWG NO.
.XX ± .01	TOLS.	82679	DD 132-1
.XXX ± .005	ANGLES	SCALE	SHEET 2 OF 2
	0° .30'	1:1	
MATERIAL	FINISH		

QTY / UNIT	MODEL USED ON	ASSY NO.
1	AP120	
APPLICATION		
CODE		
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1 2 3 4 5 D C B A

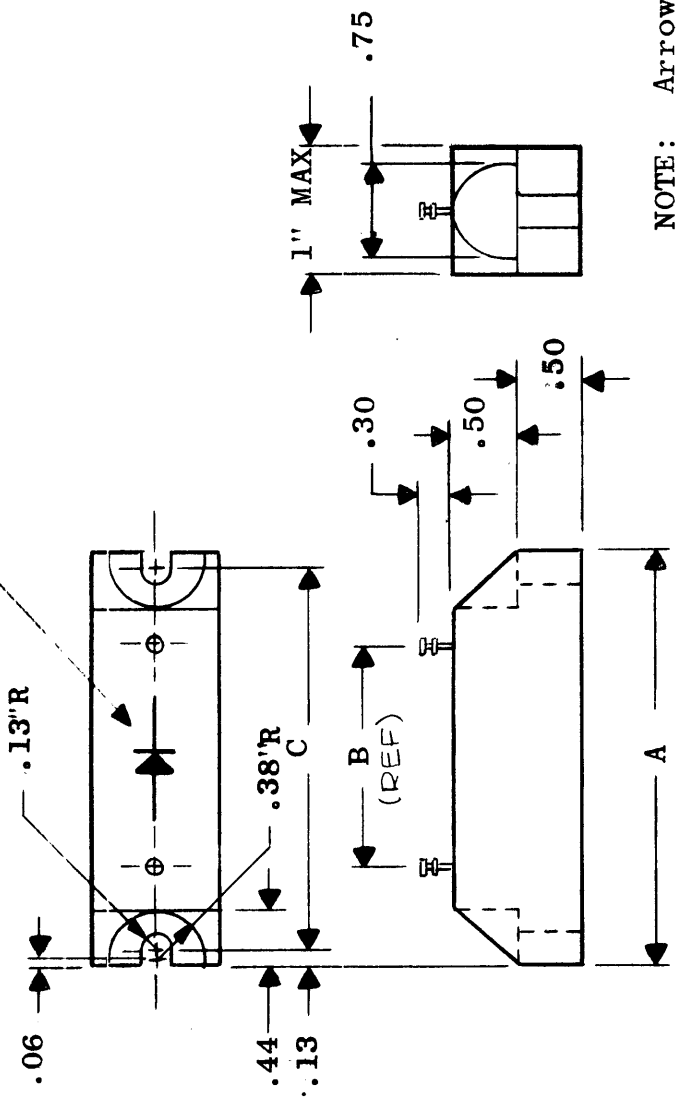


# STANDARD DRAWING

REVISIONS			
SYM	DESCRIPTION	E.M.N. NO.	DRAFT
Ø	ORIGINAL RELEASE FOR PRODUCTION	Ø	RME
Ø			

DATE	10/14/66	CHKD	
DATE		APPD	

POLARITY SYMBOL (SEE NOTE)



NOTE: Arrow indicates direction of forward current flow as indicated by dc ammeter.

TMC PART NUMBER	MFG PART NUMBER	PRV VOLTS	AVR FOWARD CURRENT @60°C MA.	MAX FORWARD VOLTAGE DROP	RMS WORKING VOLTS	SHUNT CAPACITANCE PF		DIMENSIONS		
						MIN	MAX		A	B
DD133-5000-625	CR105	5000	625	4.8	3500	85	160	3-1/4	1-3/4	3

### SPECIFICATIONS

PEAK RECURRENT AMPS: 5  
 PEAK SURGE AMPS 1/2CPS: 15  
 FREE AIR TEMP RANGE: -65 TO 125°C  
 MAX REVERSE MILLIAMPS  
 DYNAMIC: 0.3  
 STATIS: 0.6  
 MARKING: DIODE SYMBOL BY POLARITY, TMC  
 PART NUMBER. MARKING MAY  
 INCLUDE MFG. IDENTIFICATION.

DD133 - 5000 - 625  
 BASIC TMC P/N  
 PRV VOLTS  
 FORWARD CURRENT IN MILLIAMPS @60°C

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
	BUTLER		LIST OF MATERIAL	
	MATERIAL		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	FINISH		SEMI CONDUCTOR, DIODE, HALF WAVE RECTIFIER	

QTY./UNIT	SCALE	MODEL USED ON	CODE	ASSY. NO.
		PSP-350C	S401-327	

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### NOTES

DATE	7/12/66	DATE	10/14/66
DATE	7-13-66	DATE	
DATE	9-6-66	DATE	
DATE		DATE	

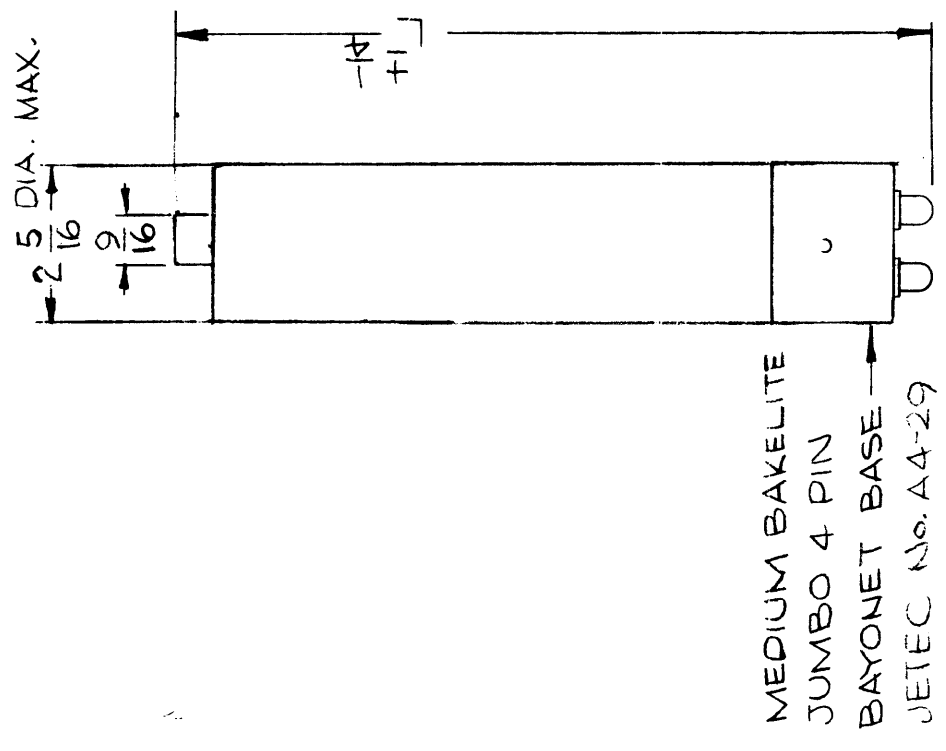
DRAWN	J. LE SHINSKI	DATE	7/12/66
CHECKED		DATE	7-13-66
ELECT. DES.		DATE	9-6-66
MECH. DES.		DATE	

# STANDARD DRAWING

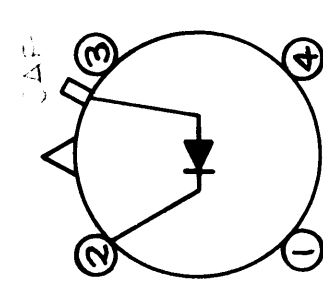
SYM	DESCRIPTION	REVISIONS			APPD
		DATE	E.M.N. NO.	DRAFT	
Ø	ORIGINAL RELEASE FOR PRODUCTION	9-28-66	Ø	RME	FUD
A	CHGB 13/4 DIA TO 2.31 DIA	12-1-66	17353	RME	JR
B	SPECS REVISED	8/23/67	18443	H.G.	FR
C	S401-402 & ED9186 ADDED (TMC MFG CODE)	12-8-67	CC	<i>[Signature]</i>	EFM
D	DIM'S 2 5/16 WAS 2.31 - DIM'S 1 7/8 DIA. DELETED - 9/16 DIM. ADDED - AW DC FWD VOLTAGE WAS 10.5" DIM. WAS 8 1/4	11-14-79	Ø1740	90, L	<i>[Signature]</i>

DD134

TMC P/N	MFG P/N	PEAK REVERSE VOLTAGE PER CIRCUIT ARM, VOLTS	MAX. RMS INPUT VOLT. VOLTS	MAX AVG DC OUTPUT AT 40° C., AMPS	AVG DC FWD VOLTAGE DROP AT RATED LOAD VOLTS	DIM "L" DIA	REPLACES TUBE TYPES
DD134	S401-436 / MB8H12 / ED9186	15,000	7,000	1.25	20	7 3/4	872A

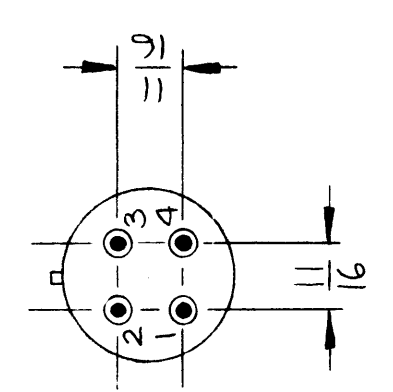


MEDIUM BAKELITE  
JUMBO 4 PIN  
BAYONET BASE  
JETEC No. AA-29



BOTTOM VIEW

- PIN No 1 - NO CONNECTION
- PIN No 2 - CATHODE
- PIN No 3 - NO CONNECTION
- PIN No 4 - NO CONNECTION
- CAP - ANODE



## NOTES

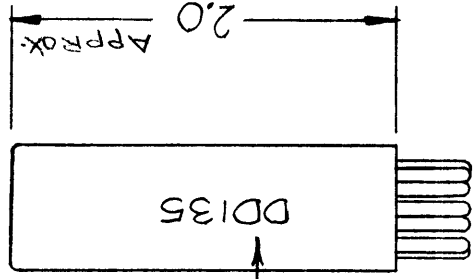
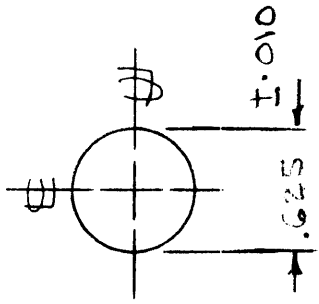
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REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
FINISH				
TITLE RECTIFIER, PLUG-IN HIGH VOLTAGE				
DRAWN <i>[Signature]</i> DATE 9-21-66				
CHECKED <i>[Signature]</i> DATE 9-21-66				
ELECT. DES. <i>[Signature]</i> DATE 9-21-66				
MECH. DES. <i>[Signature]</i> DATE 9-21-66				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES				
DECIMALS ± 0.05				
FRACTIONS ± 1/64				
ANGLES ± 0° 30'				
TOLERANCES ± 0.05				
M.L. <i>[Signature]</i> 10-6-66				

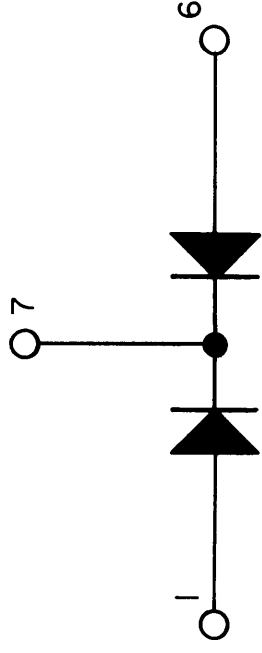
DD135

REVISIONS

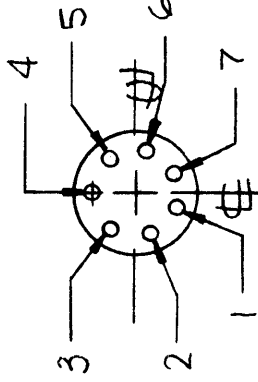
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	1-30-67		L.R.K.		



MARK TMC PT. NO.  
1/8 HIGH, WHITE  
GOTHIC.



SCHEMATIC DIAGRAM



STD 7 PIN MIN SOCKET

MAXIMUM RATINGS AND SPECIFICATIONS

- 1- PEAK INVERSE VOLTAGE: 1500VDC
- 2- MAX DC OUTPUT CURRENT @ 75°C (AMBIENT): .085A
- 3- MAX DC REVERSE CURRENT PER LEG @ 1500VDC @ 25°C: 5µA
- 4- MAX DC FORWARD VOLTAGE DROP PER LEG @ 0.5ADC @ 25°C: 2.0V
- 5- OPERATING & STORAGE TEMP RANGE: -55°C TO +125°C
- 6- MAX REPETITIVE PEAK CURRENT: 1A
- 7- MAX PEAK OVERLOAD SURGE: 1 CYCLE @ 60Hz : 15A  
5 CYCLE @ 60Hz : 8A

NOTE ~

SOLID STATE REPLACEMENT FOR 6X4

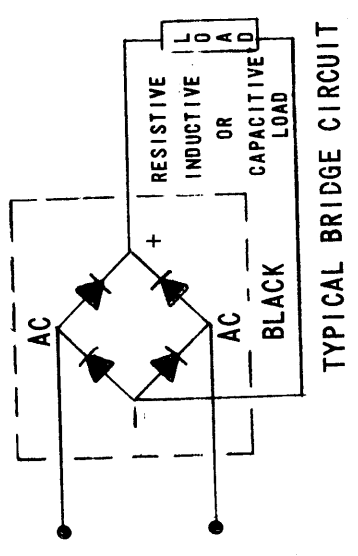
REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
	BUDETTI		LIST OF MATERIAL	
	MATERIAL	EPOXY	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	FINISH	BLACK	TITLE SEMICONDUCTOR, RECTIFIER, DIODE	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	DATE: 1/19/66 DATE: 1/6/66 DATE: 1/30/67	DATE: 1/30/67
		DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	DRAWN: [Signature] CHECKED: [Signature] ELECT. DES. DATE: [Signature] MECH. DES. DATE: [Signature]	DD135
		FRACTIONS ± 1/64 ANGLES ± 0° 30'		SHEET

Q'TY./UNIT	PS4-A	KIT 261
SCALE	MODEL USED ON	ASSY. NO.
	CODE	S401-402 (ED 7949)
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NOTES

5		4		3		2		1	
ZONE	LTR	DESCRIPTION	E.M.N.NO	DRAFT	CHKD	APPD			
	X	EXPERIMENTAL RELEASE		C.V.					
	Z	OPIS RELEASE FOR PROD. 2-19-68		P.G.					

TMC P/N	TYPE	PIV PER LEG VOLTS	SINE WAVE RMS INPUT VOLTAGE MAX	AVERAGE DC OUTPUT AMPS TC=(CASE TEMP.)			AVERAGE DC OUTPUT AMPS TA=AMBIENT TEMP (NO HEAT SINK)		PEAK RECURRENT FORWARD AMPS	PEAK DC OUTPUT (1 SEC MAX)	VF MAX PER LEG @ 3ADC	REVERSE CURRENT (IR MAX PER LEG @ PIV)					
				55°C AMPS	100°C AMPS	150°C AMPS	25°C AMPS	100°C AMPS				25°C UA	100°C UA				
DD142-1	SCBA1	100	70	25	18.5	12.5	6.5	6.0	5.0	3.0	300	75	60	55°C AMPS	25°C VOLTS	20	200



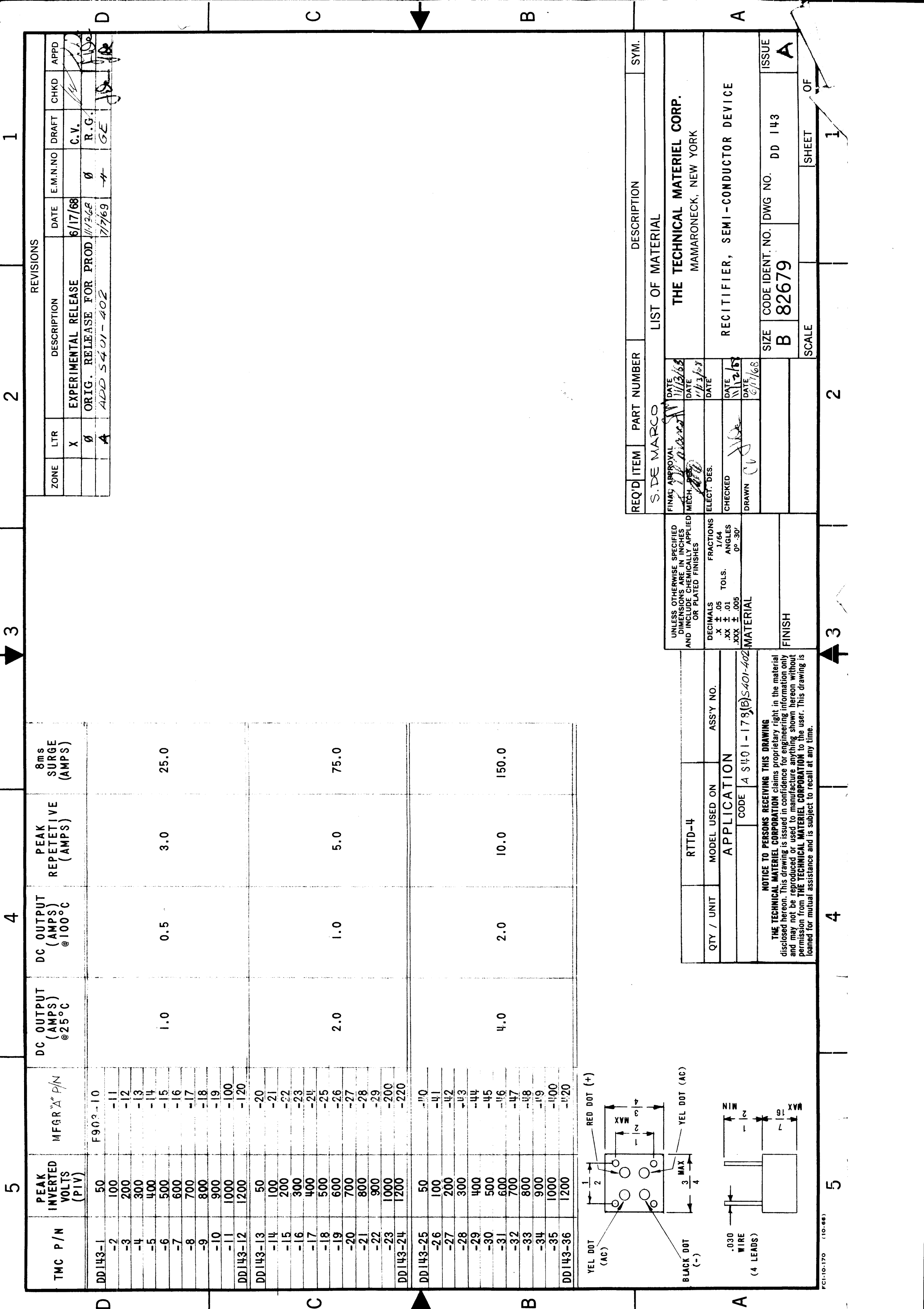
TYPICAL BRIDGE CIRCUIT

PURCHASING NOTE: VENDOR MUST INCLUDE THE FOLLOWING INFORMATION WHEN SHIPPING THIS ITEM TO TMC.

1. AN OUTLINE DRAWING OR ILLUSTRATION FROM CATALOG SHOWING ALL PERTINENT DIMENSIONS AND TOLERANCES.
2. ELECTRICAL AND/OR MECHANICAL SPECIFICATIONS AS SHOWN IN THEIR CATALOGS.

REQ'D ITEM	PART NUMBER	DESCRIPTION	SY
LIST OF MATERIAL			
F. BUDETTI			
FINAL APPROVAL	DATE 2-16-68	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MECH. DES.	DATE 2-13-68	RECTIFIER, FULL WAVE BRIDGE	
ELECT. DES.	DATE 2-16-68	SIZE	CODE IDENT. NO. DWG NO.
CHECKED	DATE 2-16-68	B	82679 DD 142
DRAWN	DATE 2-16-68	SCALE	SHEET
			1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		FRACTIONS 1/64	
DECIMALS	TOLS.	ANGLES	
.X ± .05	.XX ± .01	0°-30°	
.XXX ± .005			
MATERIAL		FINISH	
LPA-2		ASSY NO.	
QTY / UNIT	MODEL USED ON	APPLICATION	
	CODE	S401-459	
NOTICE TO PERSONS RECEIVING THIS DRAWING			
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REVISIONS

ZONE	LTR	DESCRIPTION	DATE	E.M.N.O	DRAFT	CHKD	APPD
	X	EXPERIMENTAL RELEASE	6/17/68		C.V.		
	Ø	ORIG. RELEASE FOR PROD	11/3/68	Ø	R.G.		
	A	ADD 5401-402	7/7/69	-#	GE		

TMC P/N	PEAK INVERTED VOLTS (PIV)	MFGR'S P/N	DC OUTPUT (AMPS) @ 25°C	DC OUTPUT (AMPS) @ 100°C	PEAK REPETITIVE (AMPS)	8ms SURGE (AMPS)
DD143-1	50	F903-10				
-2	100	-11				
-3	200	-12				
-4	300	-13				
-5	400	-14				
-6	500	-15	1.0	0.5	3.0	25.0
-7	600	-16				
-8	700	-17				
-9	800	-18				
-10	900	-19				
-11	1000	-100				
-12	1200	-120				
DD143-13	50	-20				
-14	100	-21				
-15	200	-22				
-16	300	-23				
-17	400	-24				
-18	500	-25				
-19	600	-26				
-20	700	-27	2.0	1.0	5.0	75.0
-21	800	-28				
-22	900	-29				
-23	1000	-200				
-24	1200	-220				
DD143-25	50	-110				
-26	100	-41				
-27	200	-42				
-28	300	-43				
-29	400	-44				
-30	500	-45				
-31	600	-46				
-32	700	-47				
-33	800	-48				
-34	900	-49				
-35	1000	-400				
-36	1200	-420				

LIST OF MATERIAL

REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
S.D.E MARCO			
FINAL APPROVAL	DATE	THE TECHNICAL MATERIEL CORP.	
MECH.	1/13/68	MAMARONECK, NEW YORK	
ELECT. DES.	DATE		
CHECKED	DATE	RECITIFIER, SEMI-CONDUCTOR DEVICE	
DRAWN	DATE		
	11/2/68		
	6/17/68		

QTY / UNIT	MODEL USED ON	ASSY NO.
	RTTD-4	
	APPLICATION	
	CODE A S401-178(B)S401-402	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS: .X ± .05, .XX ± .01, .XXX ± .005

FRACTIONS: 1/64

TOLS. ANGLES: 0°-30'

MATERIAL: FINISH

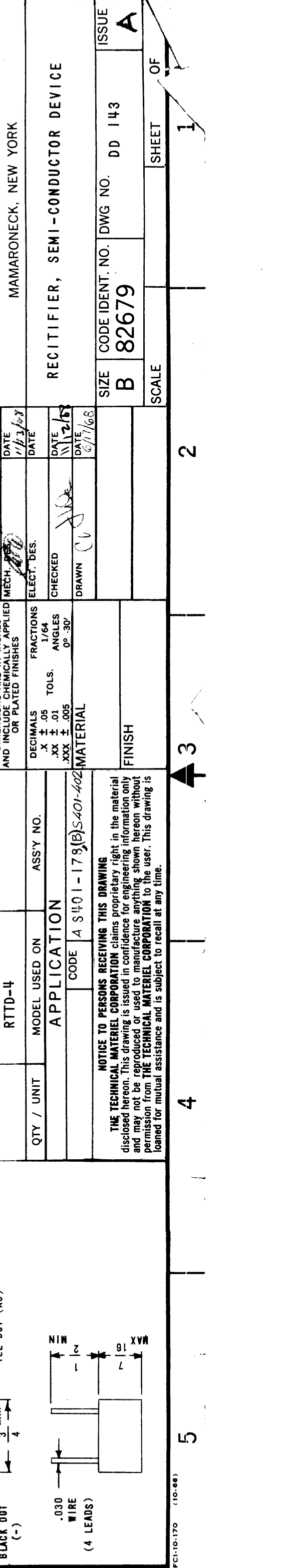
SCALE: B 82679

SIZE: DD 143

CODE IDENT. NO.: DD 143

ISSUE: A

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ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	X	EXPERIMENTAL RELEASE	7/1/68		C.V.		
	X1	TMC P/N CLARIFIED	9/12/68	X1	C.V.		
	Ø	ORIG. RELEASE FOR PROD.		Ø	R.G.		

TMC P/N	MFGR TYPE NO	PEAK REVERSE VOLTAGE PER CELL (DC OR RECURRENT) $V_{RM}$ (rep) VOLTS	SINE WAVE RMS INPUT VOLTAGE (LINE TO LINE) $V_R$ VOLTS	DC OUTPUT RES LOAD VOLTS	CAP LOAD VOLTS	DC OUTPUT CURRENT @ 55°C AMBIENT $I_o$ AMPS 1	PEAK FULL-WAVE ONE CYCLE SURGE CURRENT (60 Hz) $I_{FM(surge)}$ AMPS 2	PEAK FULL-WAVE REPETITIVE FORWARD CURRENT (NON-SINUSOIDAL 60Hz) $I_{FM(rep)}$ AMPS
DD144-1	MDA960-1	50	35	30	50	2.5	100	15
-2	↑ -2	100	70	62	100	2.5	100	15
-3	MDA960-3	200	140	124	200	2.5	100	15
-4	MDA970-1	50	35	30	50	4.0	150	25
-5	↑ -2	100	70	62	100	4.0	150	25
-6	MDA970-3	200	140	124	200	4.0	150	25

REVISIONS	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
			LIST OF MATERIAL	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	DECIMALS	FRACTIONS	TOLS.	ANGLES
	.X ± .05	1/64		
	.XX ± .01			0° .30'
	.XXX ± .005			

QTY / UNIT	MODEL USED ON	ASS'Y NO.
	APPLICATION	
	CODE	S401-302

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CASE 117

ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$  UNLESS OTHERWISE NOTED)

CHARACTERISTIC	SYMBOL	RATING	UNIT
MAXIMUM FORWARD VOLTAGE DROP PER CELL ( $I_F = 1.25\text{A dc}$ ) MDA960 ( $I_F = 2.0\text{A dc}$ ) MDA970	$V_F$	1.0	Vdc
MAXIMUM REVERSE CURRENT PER CELL ( $V_R = \text{RATED } V_{RM}$ )	$I_R$	1.0	mA

CASE: TRANSFER-MOLDED PLASTIC ENCAPSULATION  
 FINISH: ALL EXTERNAL SURFACES ARE CORROSION-RESISTANT, LEADS ARE READILY SOLDERABLE.  
 POLARITY: **EMBOSSED SYMBOLS**  
 AC INPUT = ~ +DC OUTPUT = - -DC OUTPUT = -

REVISIONS	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD

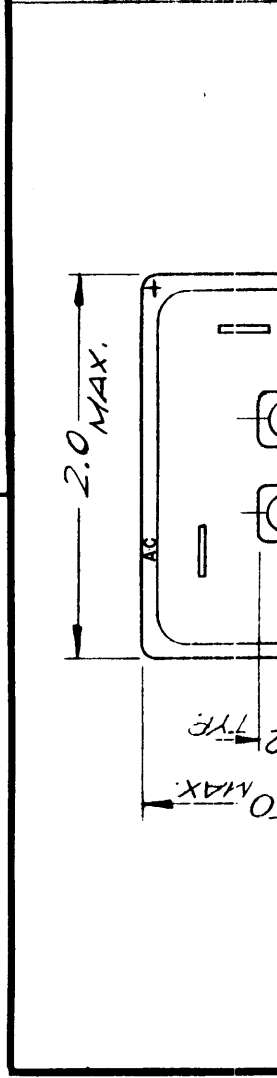
THE TECHNICAL MATERIEL CORP.	MAMARONECK, NEW YORK
RECTIFIER, SEMI-CONDUCTOR, DEVICE <td></td>	
SIZE <b>B</b> CODE IDENT. NO. <b>82679</b> DWG NO. <b>DD 144</b> ISSUE <b>Ø</b>	
SCALE SHEET <b>1</b> OF <b>1</b>	



1 2 3 4 5

ZONE	LTR	DESCRIPTION	DATE	E.M.N.O	DRAFT	CHKD	APPD
	X	EXP. RELEASE	1/20/70		KLW	MD	
	D	ORIGINAL RELEASE	1/26/70		CY		
	A	POLARITY SYN. REVERS.	3/12/70	19785	KLW	AS	RTD
	E	POLARITY SYM REVERSED	6/11/71	20373	CU	CU	

TMC P/N	MFG. P/N	PIV PER LEG
DD 146-1	PBT 05	50V
DD 146-2	PBT 10	100V
DD 146-3	PBT 20	200V
DD 146-4	PBT 40	400V
DD 146-5	PBT 60	600V
DD 146-6	PBT 80	800V
DD 146-7	PBT 100	1000V



**REVISIONS**

**SPECIFICATIONS**

**AVERAGE DC CURRENT OUTPUT CASE TEMPERATURE:**

55°C	27.5 AMPS
100°C	20 AMPS
125°C	15 AMPS
150°C	7.5 AMPS

**AMBIENT TEMPERATURE:**  
(No heat sink)

25°C	8 AMPS
55°C	6 AMPS
100°C	4 AMPS

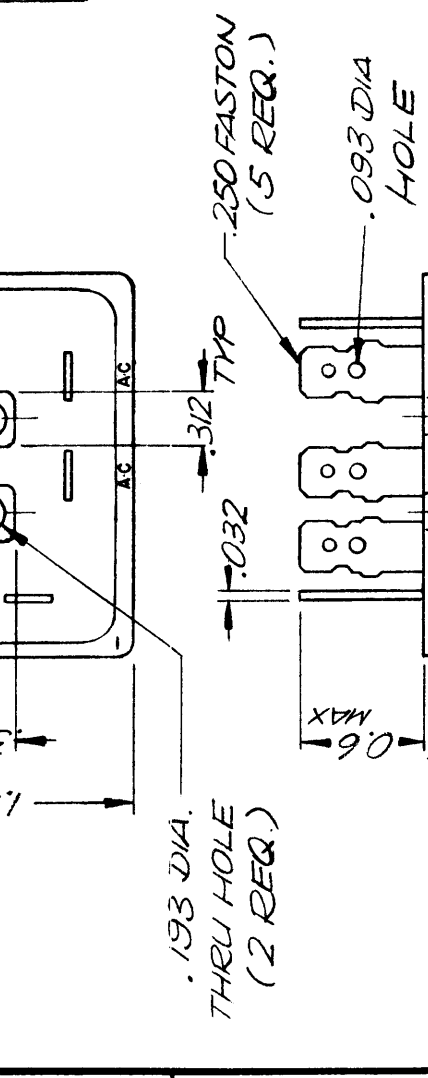
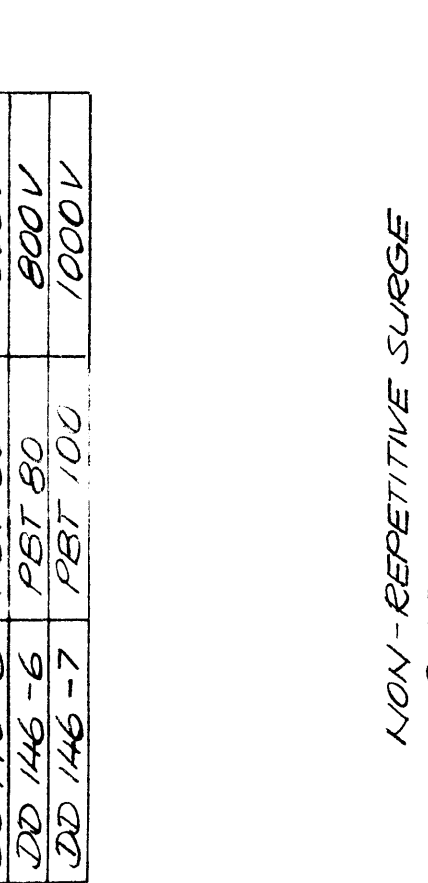
**PEAK ONE-CYCLE SURGE (60Hz): 300 AMPS MAX**

**PEAK RECURRENT FORWARD CURRENT (T<sub>c</sub> = 55 C): 75 AMPS MAX**

**MAXIMUM DC FORWARD VOLTAGE PER LEG @ 3 AMPS DC @ 25°C: 1 VOLT**

**MAXIMUM DC REVERSE CURRENT @ RATED PIV: 10 uA @ 25°C  
100 uA @ 100 C**

**MATERIAL: METALLIC CASE FILLED WITH HIGH THERMAL CONDUCTIVITY EPOXY**



REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
<b>LIST OF MATERIAL</b>			
<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK, NEW YORK			
<b>RECTIFIER, SCOND DEN</b>			

FINAL APPROVAL	DATE	MECH. DES.	DATE
[Signature]	1-23-70	[Signature]	1-23-70
[Signature]	1-22-70	[Signature]	1-22-70
[Signature]	1/20/70	[Signature]	1/20/70

QTY / UNIT	MODEL USED ON	ASSY NO.
1	PALA-10K	AX 5080

**APPLICATION**

CODE	S 401 - 402
------	-------------

**UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES**

DECIMALS	FRACTIONS
.X ± .05	1/64
.XX ± .01	TOLS. ANGLES
.XXX ± .005	0° - 30'

**MATERIAL**

**FINISH**

**SIZE** B **CODE IDENT. NO.** 82679 **DWG NO.** DD 146 **ISSUE** B

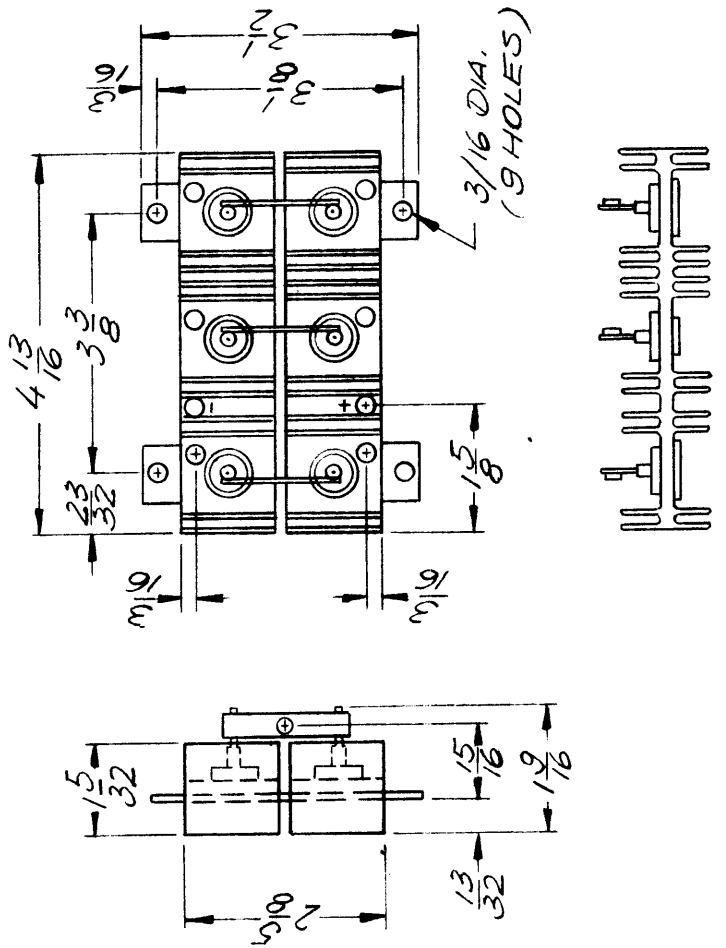
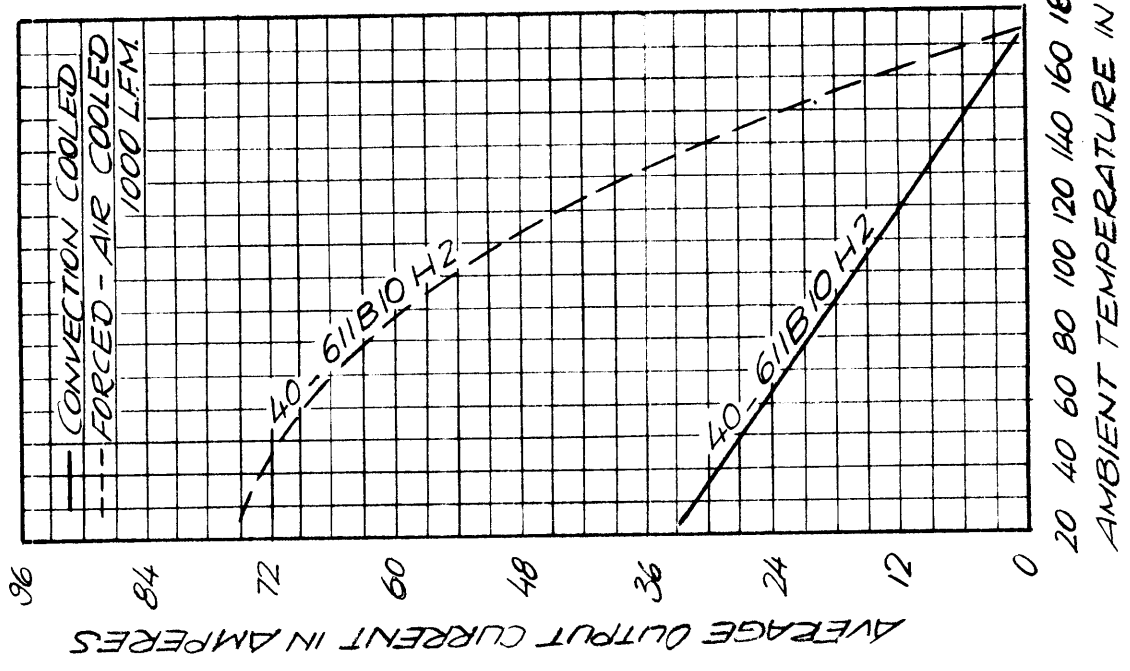
**SCALE**  $\frac{1}{4}$  **SHEET** 1 **OF** 1

**NOTICE TO PERSON RECEIVING THIS DRAWING**

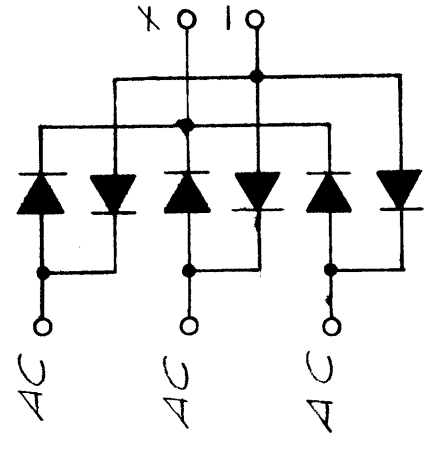
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TMC P/N.		MFGR. P/N.	PRV OF DIODE	OUTPUT VOLTAGE	OUTPUT CURRENT AT 40°C AMBIENT RESISTIVE OR INDUCT. LOAD, 60 CPS INPLT	TYPE OF ASSY.
DD 147-1		40B611810H2	200	190	32 AMPERES	CONTROLLED ANALYZED

OUTPUT CURRENT AS A FUNCTION OF AMBIENT TEMPERATURE FOR ALL STANDARD STACK ASSEMBLIES



CONNECTIONS:  
A.C. = BUSBAR  
D.C. = HEATSINK  
WEIGHT = 9 OZ.



NOTE:  
1. SUPERCEDED BY DD 150 FOR NEW DESIGN  
2. FOR SPARES USE DIRECTLY REPLACED BY A 5704

REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
BLUDET1		LIST OF MATERIAL	
FINAL APPR.	PAE-70	THE TECHNICAL MATERIEL CORP.	
MECH. DES.	PAE-2	MAMARONECK, NEW YORK	
ELECT. DES.			
CHECKED	DATE 12/2/69		
DRAWN	DATE 12/2/69		

SIZE	CODE IDENT. NO.	DWG NO.	ISSUE
B	82679	DD 147	A
SCALE	SHEET	OF	
	1	1	