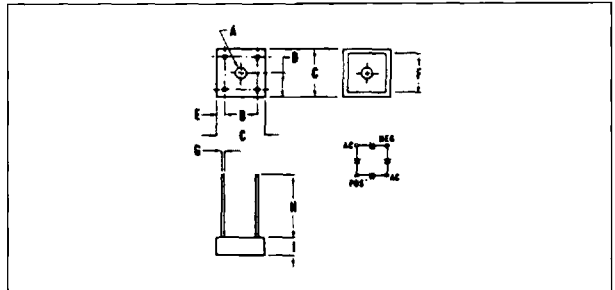


EBR 10 Amp Epoxy Bridge Rectifiers

10 Amps DC Forward Current at $T_C = 80^\circ\text{C}$
 100 Amps Peak One Half Cycle Surge Current
 2000 Volts Minimum Circuit-to-Case Insulation
 Glass Passivated Silicon Chips

LTR.	INCHES	MILLIMETERS
A	.137-.167 Dia.	3,84-4,24 Dia.
B	.411-.441	10,44-11,20
C	.590-.610	14,99-15,49
D	.295-.305	7,49-7,75
E	.082-.092	2,08-2,34
F	.545-.555	13,85-14,10
G	.038-.042	.970-1,07
H	1.0 Min.	25,40 Min.
I	.195-.215	4,95-5,46



MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	CONTROLLED AVALANCHE				NON-CONTROLLED AVALANCHE							UNITS
		VJ247M	VJ447M	VJ647M	VJ847M	VJ048M	VJ148M	VJ248M	VJ448M	VJ648M	VJ848M	VJ1048M	
Series Number		VJ247M	VJ447M	VJ647M	VJ847M	VJ048M	VJ148M	VJ248M	VJ448M	VJ648M	VJ848M	VJ1048M	
DC Blocking Voltage	V_{RM}	200	400	600	800	50	100	200	400	600	800	1000	Volts
Working Peak Reverse Voltage	V_{RWM}												
Peak Repetitive Reverse Voltage	V_{RRM}												
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	560	35	70	140	280	420	560	700	Volts
Power Dissipation in $V_{(BR)}$ Region for 100 μSEC Square Wave	P_{RM}	400				NA							Watts
Continuous Power Dissipation in $V_{(BR)}$ Region at $T_C = 80^\circ\text{C}$	P_R	2				NA							Watts
Peak Surge Current, $\frac{1}{2}$ Cycle at 60 Hz (Non-Rep.) at $T_C = 80^\circ\text{C}$ (Fig. 2)	I_{FSM}	100											Amps
Fusing Data	I^2t	40											Amps ² -Sec.
Peak Surge Current, 1 sec at 60 Hz and $T_C = 80^\circ\text{C}$ (Fig. 2)	I_{FRM}	30											Amps
Avg. Forward Current at $T_C = 80^\circ\text{C}$ (Fig. 1)	I_O	10											Amps
Junction Operating and Storage Temperature Range	T_J, T_{STG}	- 50 to + 150											$^\circ\text{C}$
Maximum Soldering Temperature & Time		10 Sec at 265°C											

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	CONTROLLED AVALANCHE				NON-CONTROLLED AVALANCHE							UNITS
		VJ247M	VJ447M	VJ647M	VJ847M	VJ048M	VJ148M	VJ248M	VJ448M	VJ648M	VJ848M	VJ1048M	
Series Number		VJ247M	VJ447M	VJ647M	VJ847M	VJ048M	VJ148M	VJ248M	VJ448M	VJ648M	VJ848M	VJ1048M	
Minimum Avalanche Voltage	$V_{(BR)}$	250	450	650	850	NA							Volts
Maximum Avalanche Voltage	$V_{(BR)}$	700	900	1100	1300	NA							Volts
Maximum Instantaneous Forward Voltage Drop (per diode) at 10 Amps (Fig. 3)	V_{FM}	1.3											Volts/Leg
Maximum Reverse Current at Rated V_{RM}	I_{RM}	5											μA
Maximum Reverse Current at Rated V_{RM} at $T_J = 125^\circ\text{C}$	I_{RM}	2.0											mA
Insulation Strength From Circuit to Case (min.)		2000											Volts DC
Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	3											$^\circ\text{C}/\text{W}$

Devices listed herein have been recognized under the component program of Underwriters Laboratories, Inc.

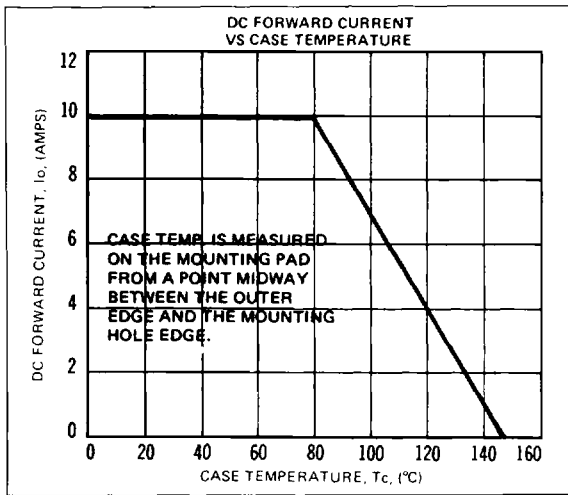


FIGURE 1

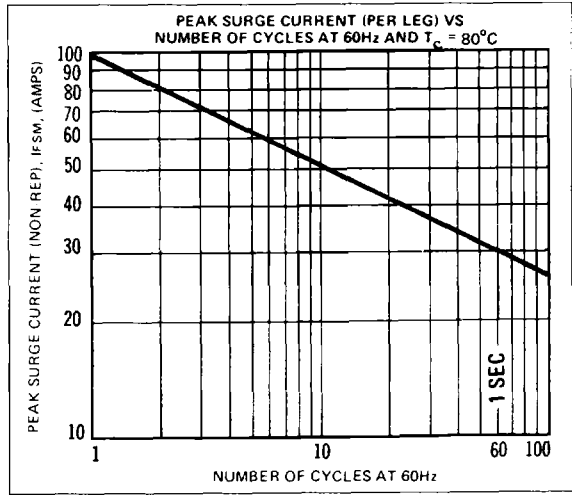


FIGURE 2

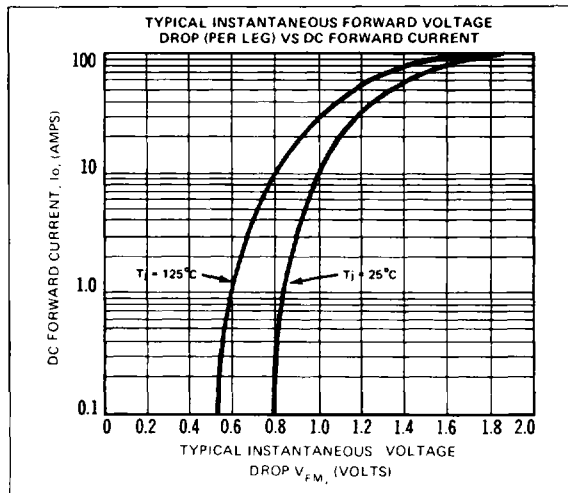


FIGURE 3

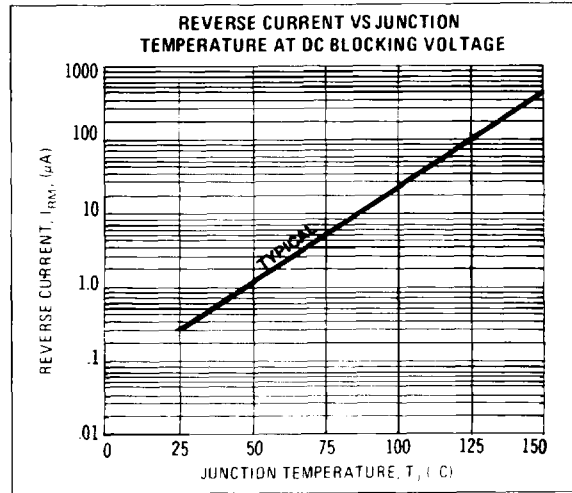


FIGURE 4

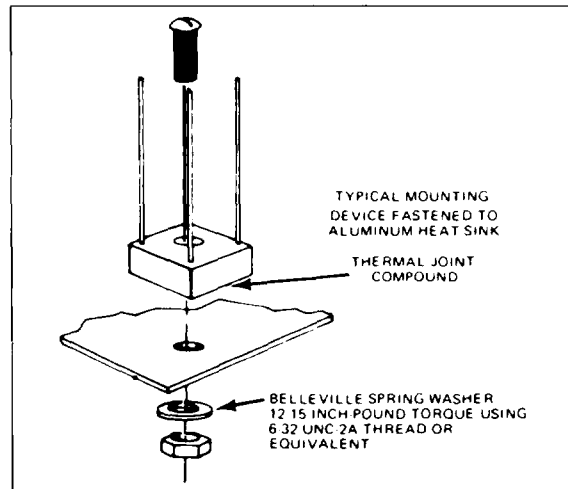


FIGURE 5

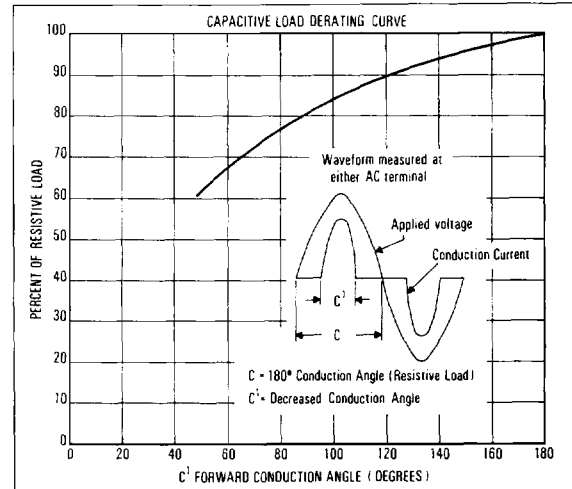


FIGURE 6