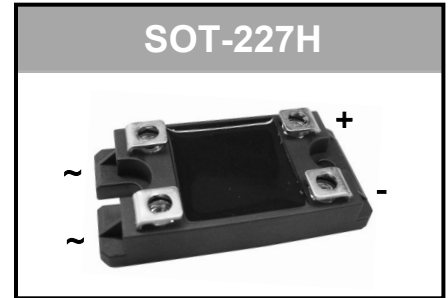




STANDARD RECOVERY  
BRIDGE RECTIFIER 50A

Features

High Surge Capability  
Type 600V  $V_{RRM}$

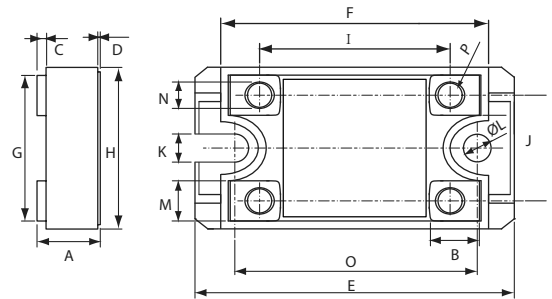


Maximum Ratings

Operating Temperature : - 40 °C to +150 °C  
Storage Temperature : - 40 °C to +150 °C

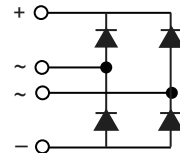
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
M1PIA50-060	600V	600V

Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per leg)	$I_{F(AV)}$	50A	$T_C = 110^\circ C$
Peak Forward Surge Current	$I_{FSM}$	700A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per leg)	$V_F$	1.10V	$I_{FM} = 50A$ $T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	$I_R$	10 $\mu A$ 10mA	$T_J = 25^\circ C$ $T_J = 150^\circ C$
Isolation Voltage	$V_{isol}$	2500 V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	1.0°C/W	
Mounting torque	$M_d$	1.3Nm	(M4 Screw)



DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.516	0.532	13.10	13.50
B	0.355	0.374	9.00	9.50
C	0.075	0.091	1.90	2.30
D	0.014	0.033	0.35	0.85
E	2.541	2.557	64.50	64.90
F	2.104	2.120	53.40	53.80
G	1.127	1.143	28.60	29.00
H	1.253	1.269	31.80	32.20
I	1.448	1.468	36.75	37.25
J	0.812	0.827	20.60	21.00
K	0.201	0.217	5.10	5.50
L	0.201	0.217	5.10	5.50
M	0.307	0.323	7.80	8.20
N	0.169	0.185	4.30	4.70
O	1.931	1.946	49.00	49.40
P	M4*8			

\*Pulse Test : Pulse Width 300  $\mu$  sec,Duty Cycle 2%



Figure .1- Typical Forward Characteristics

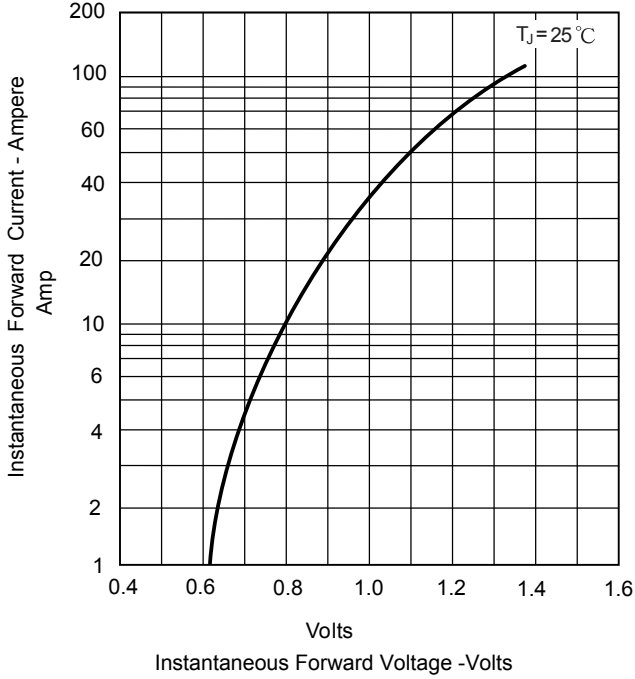


Figure .2- Forward Derating Curve

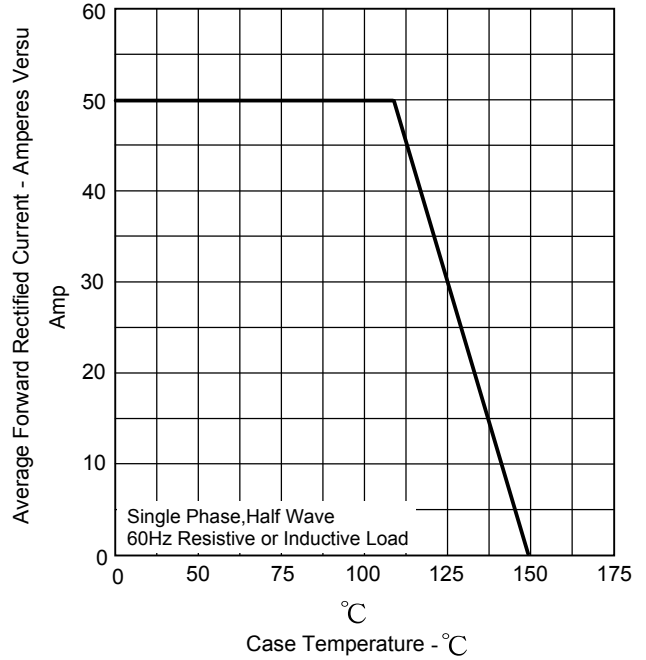


Figure .3- Peak Forward Surge Current

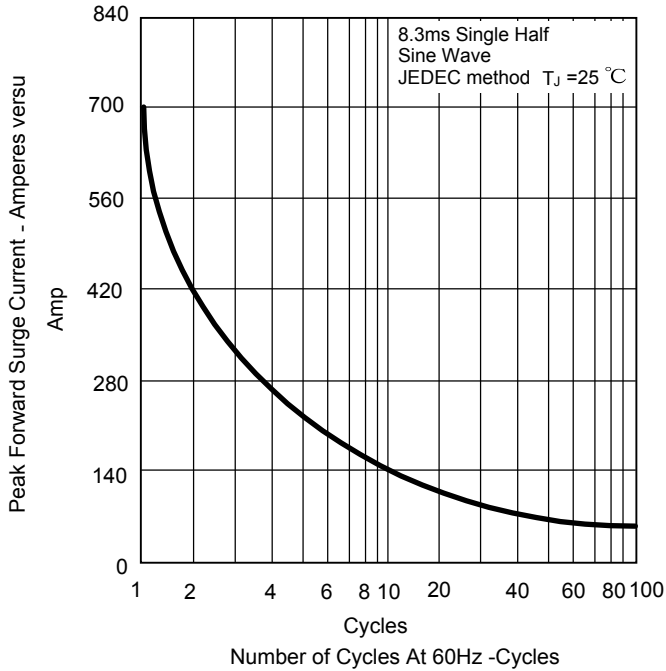
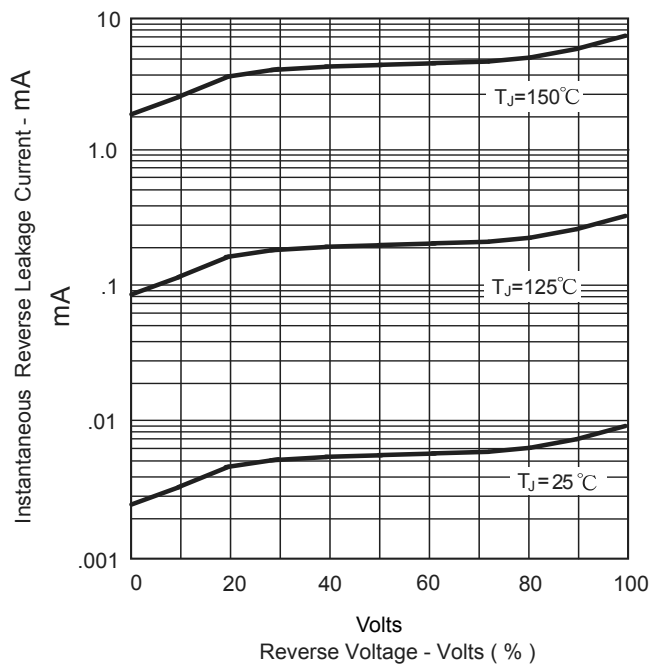


Figure .4-Typical Reverse Characteristics





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