

STANDARD RECOVERY BRIDGE RECTIFIER 50A

Features

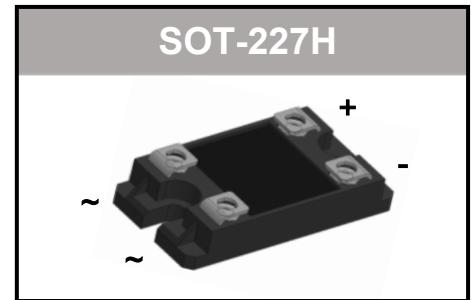
High Surge Capability
Type 600V V_{RRM}

Maximum Ratings

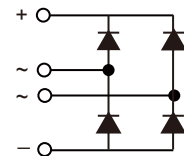
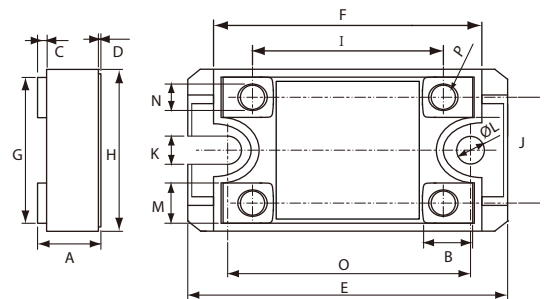
Operating Temperature : - 40 °C to +150 °C

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	$T_C = 110^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	700A	8.3ms, half sine
Maximum Instantaneous Forward Voltage *	V_F	1.10V	$I_{FM} = 50A$ $T_J = 25^\circ\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	$10\mu A$ 10mA	$T_J = 25^\circ\text{C}$ $T_J = 150^\circ\text{C}$
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 μ sec,Duty Cycle 2%

Figure.1 - Typical Forward Characteristics

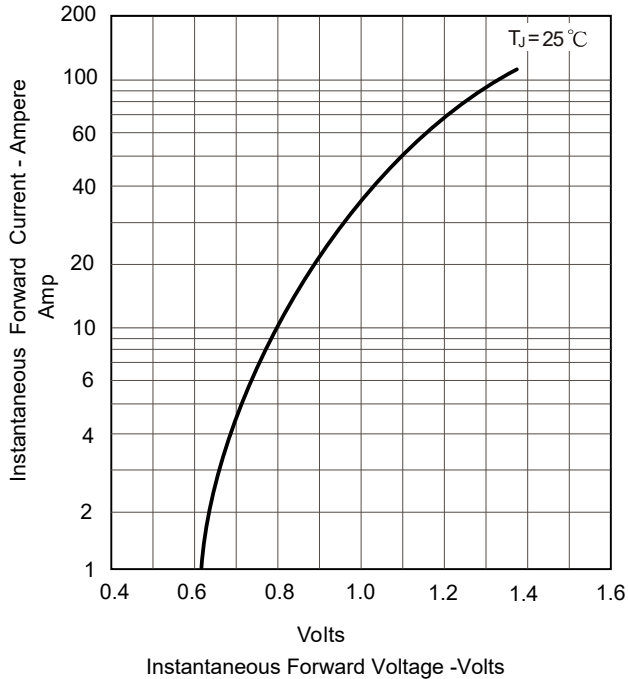


Figure.2 - Forward Derating Curve

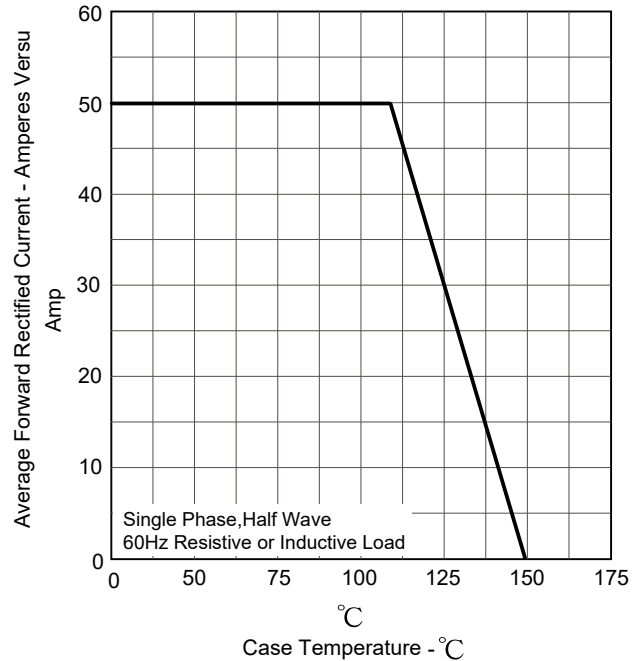


Figure.3 - Peak Forward Surge Current

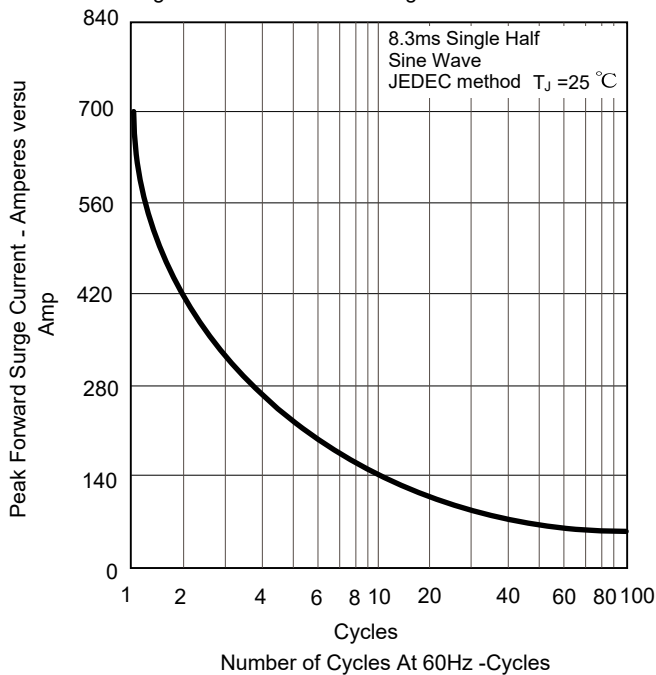
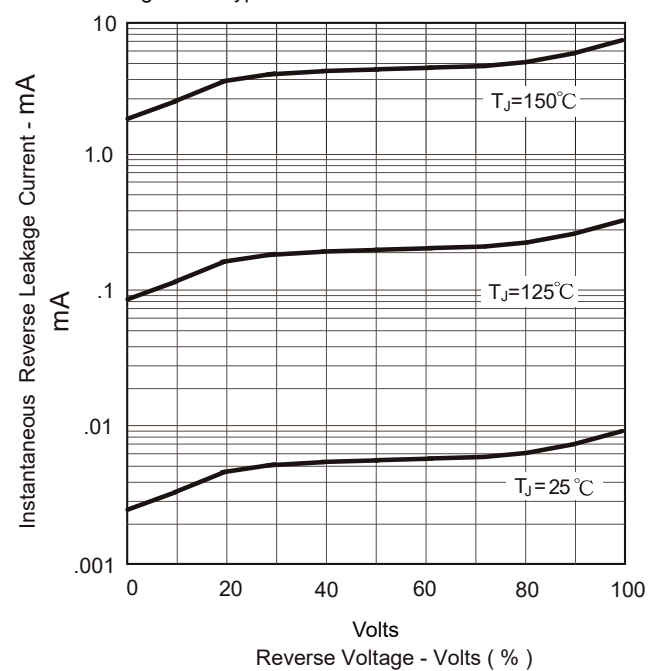


Figure.4 - Typical Reverse Characteristics



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