

SUPER FAST DIODE MODULE TYPE 240 A

Features

High Surge Capability
Type 1000V V_{RRM}
Isolation Type Package
Electrically Isolation base plate

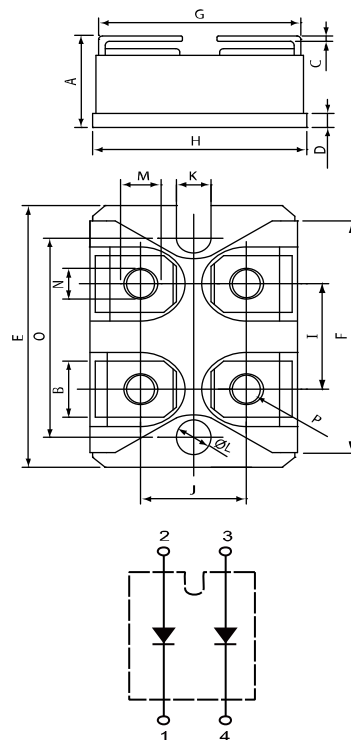


SOT-227

Maximum Ratings

Operating Temperature : -55 °C to +175 °C
Storage Temperature : -55 °C to +175 °C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
* 6 ;) \$10 6 '	1000V	700V	1000V



Electrical Characteristics @ 25f Unless Otherwise Specified.

Average Forward Current (Per pkg)	$I_{F(AV)}$	240 A	$T_C=100\text{ }^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	2100 A	8.3ms, half sine
Maximum Instantaneous Forward Voltage* (Per leg)	V_F	2.35 V	$I_{FM}=120\text{A}; T_J=25\text{ }^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	25 uA 3mA	$T_J=25\text{ }^{\circ}\text{C}$ $T_J=150\text{ }^{\circ}\text{C}$
Maximum Reverse Recovery Time (Per leg)	T_{rr}	135 ns	$I_F=0.5\text{A}, I_R=1.0\text{A}$ $I_{RR}=0.25\text{A}$
Isolation Voltage	V_{iso}	2500 V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.38 °C/W	

* Pulse Test: Pulse Width 300 μ sec, Duty<2%

DIM	DIMENSIONS		
	IN	MM	
A	.519	12.70	13.20
B	.322	7.80	8.20
C	.033	.75	.84
D	.082	1.95	2.10
E	1.502	37.80	38.20
F	1.258	31.75	32.00
G	.956	23.65	24.30
H	1.007	25.30	25.60
I	.594	14.90	15.10
J	.516	12.50	13.10
K	.169	4.10	4.30
L	61	.169	4.10
M	.181	.191	4.60
N	.165	.177	4.20
O	1.184	1.192	30.10
P		M4*8	

Figure .1- Typical Forward Characteristics

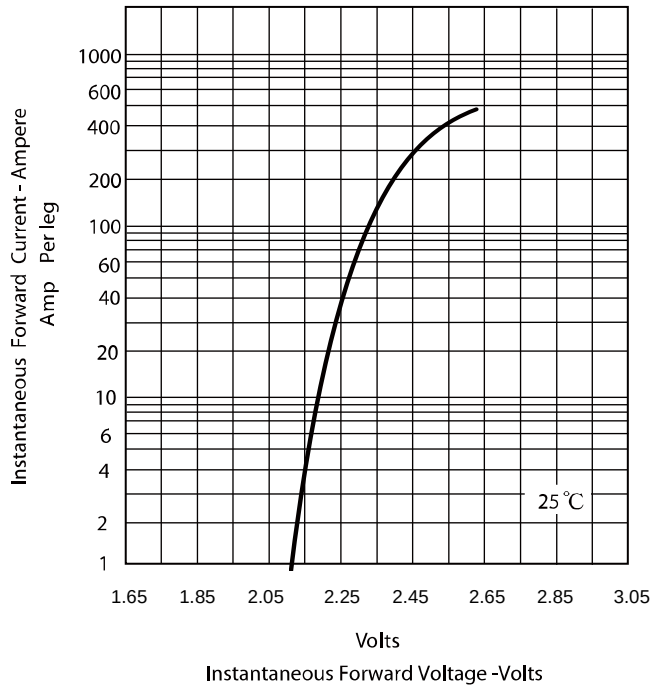


Figure.2 - Forward Derating Curve

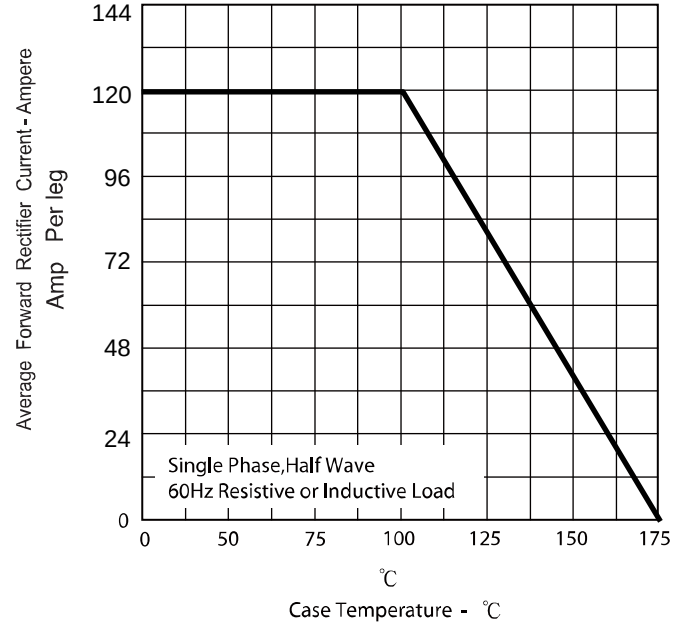
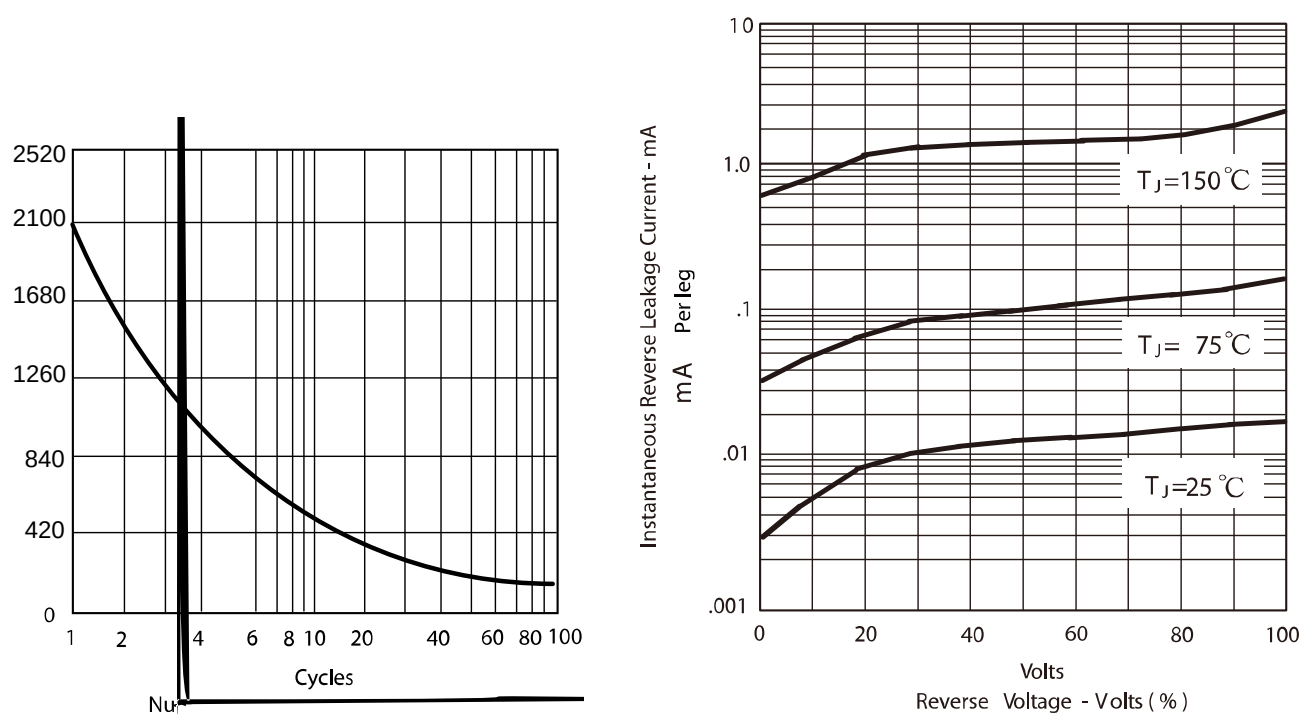


Figure .4 -Typical Reverse Characteristics



Revision History

Date	Revision	Notes
8/10/2014	1.0	Initial release
01/03/2020	1.1	Applied company name change