

SUPER FAST DIODE MODULE TYPE 60A

Features

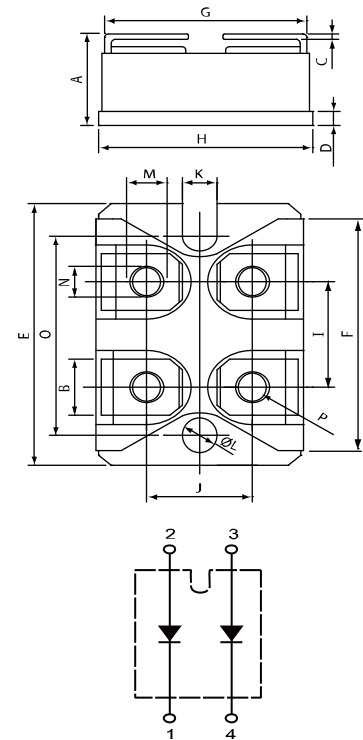
High Surge Capability
 Type 600V V_{RRM}
 Isolation Type Package
 Electrically Isolation base plate



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
GSXF030A060S1-D3	600V	420V	600V



Electrical Characteristics @ 25 °C Unless Otherwise Specified.

Average Forward Current (Per pkg)	$I_{F(AV)}$	60 A	$T_c = 125\text{ }^\circ\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	400 A	8.3ms, half sine
Maximum Instantaneous Forward Voltage* (Per leg)	V_F	1.5 V	$I_{FM} = 30\text{A}; T_J = 25\text{ }^\circ\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	25 μA 3 mA	$T_J = 25\text{ }^\circ\text{C}$ $T_J = 150\text{ }^\circ\text{C}$
Maximum Reverse Recovery Time (Per leg)	T_{rr}	60 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)	$R_{\theta jc}$	1.2 °C/W	

* Pulse Test: Pulse Width 300 μsec , Duty < 2%

DIM	DIMENSIONS		
	INC	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	.161	.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

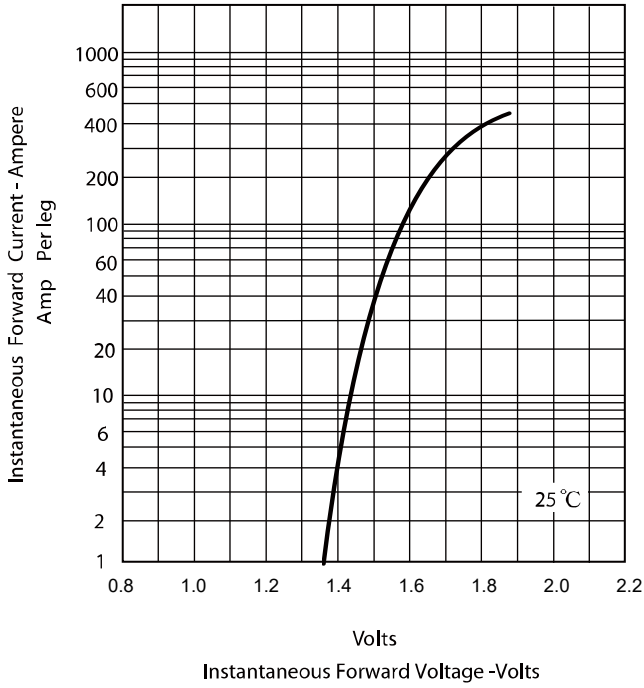


Figure.2 - Forward Derating Curve

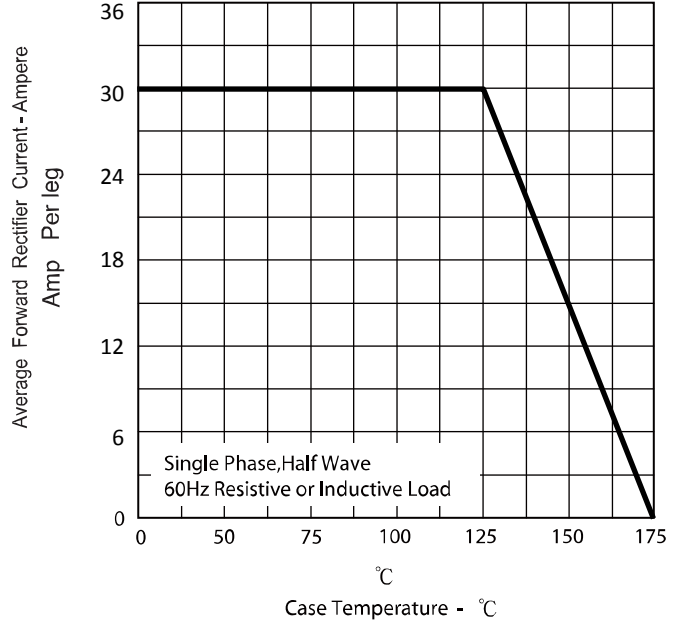


Figure.3 - Peak Forward Surge Current

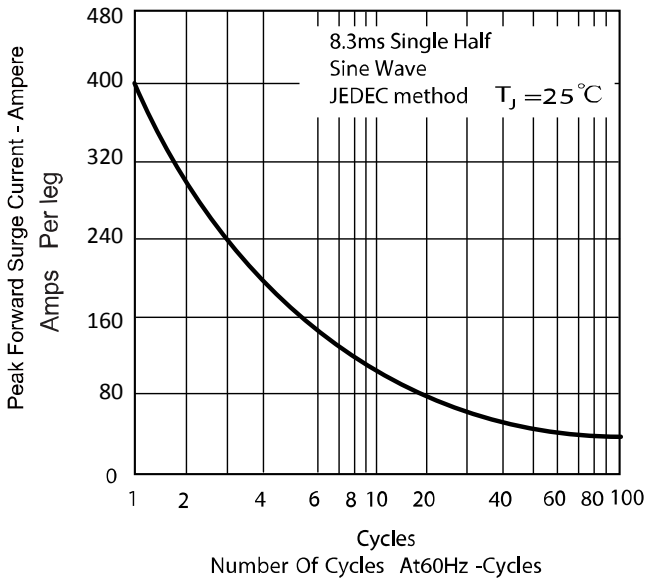
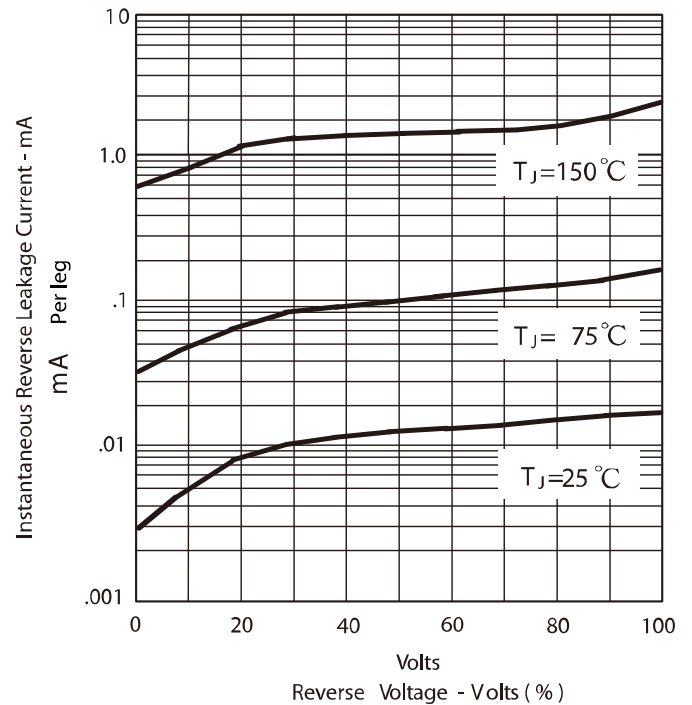


Figure .4 - Typical Reverse Characteristics



Revision History

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