

### Features

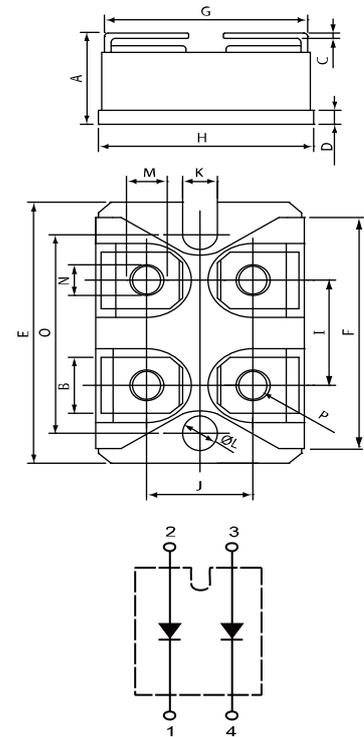
- High Surge Capability
- Type 1000V  $V_{RRM}$
- Isolation Type Package
- Electrically Isolation base plate



### 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
GSXF060A100S1-D3	1000V	700V	1000V



### Electrical Characteristics @ 25 Unless Otherwise Specified.

Average Forward Current (Per pkg)	$I_{F(AV)}$	120 A	$T_c = 125^\circ\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	900 A	8.3ms, half sine
Maximum Instantaneous Forward Voltage* (Per leg)	$V_F$	2.35 V	$I_{FM} = 60\text{A}; T_J = 25^\circ\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	$I_R$	25 $\mu\text{A}$ 3 mA	$T_J = 25^\circ\text{C}$ $T_J = 150^\circ\text{C}$
Maximum Reverse Recovery Time (Per leg)	$T_{rr}$	90 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)	$R_{\theta jc}$	0.8 °C/W	

\* Pulse Test: Pulse Width 300  $\mu\text{sec}$ , Duty < 2%

DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MXA	MIN	MXA
A	.500	.519	12.70	13.20
B	.307	.322	7.80	8.20
C	.029	.033	.75	.84
D	.077	.082	1.95	2.10
E	1.487	1.502	37.80	38.20
F	1.250	1.258	31.75	32.00
G	.931	.956	23.65	24.30
H	.996	1.007	25.30	25.60
I	.586	.594	14.90	15.10
J	.492	.516	12.50	13.10
K	.161	.169	4.10	4.30
L	.161	.169	4.10	4.30
M	.181	.191	4.60	4.95
N	.165	.177	4.20	4.50
O	1.184	1.192	30.10	30.30
P	M4*8			

Figure .1- Typical Forward Characteristics

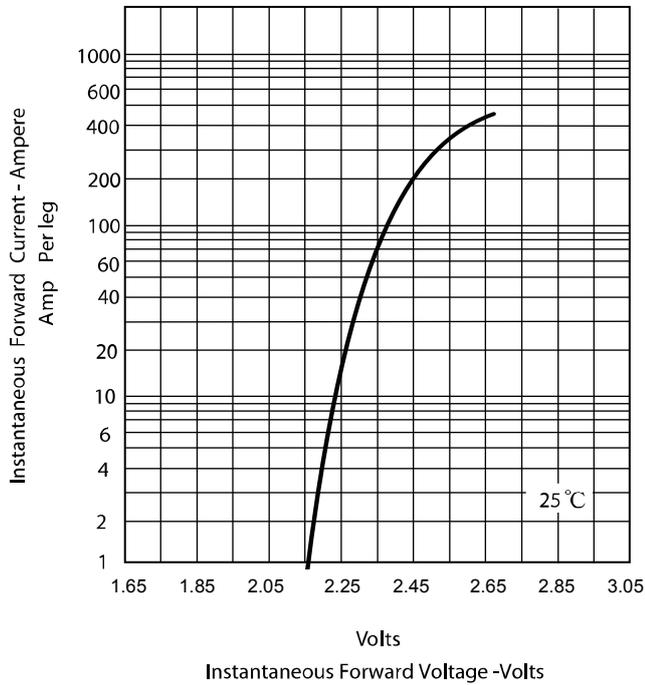


Figure.2 - Forward Derating Curve

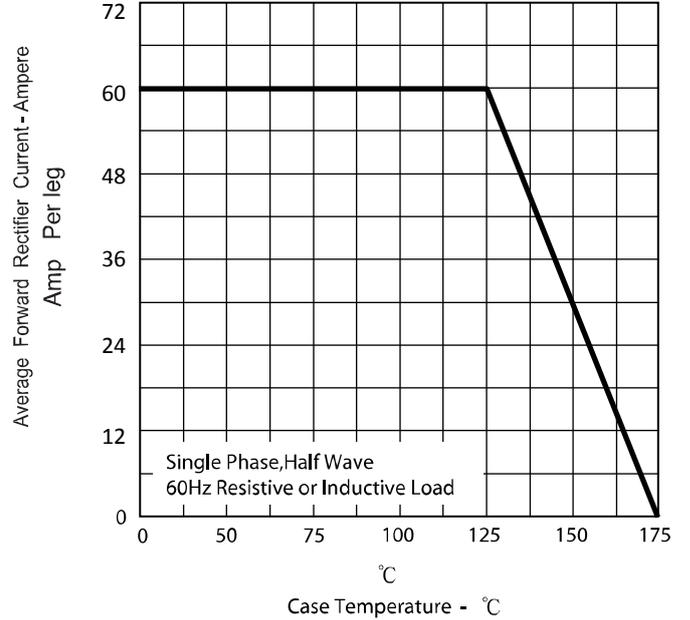


Figure.3 - Peak Forward Surge Current

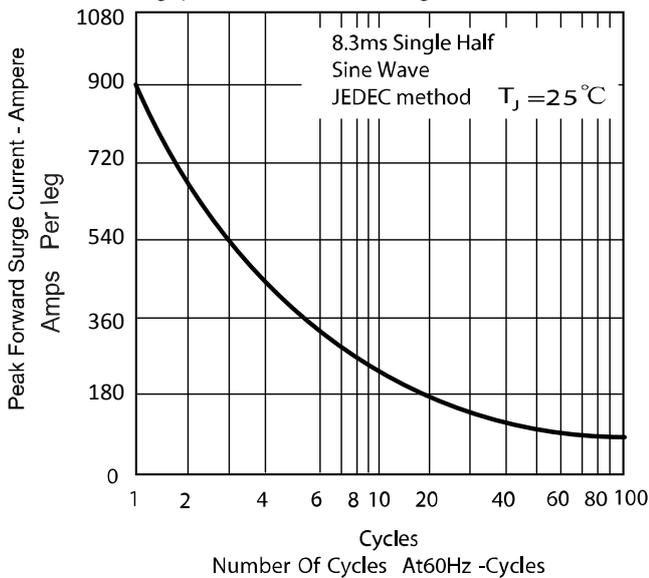
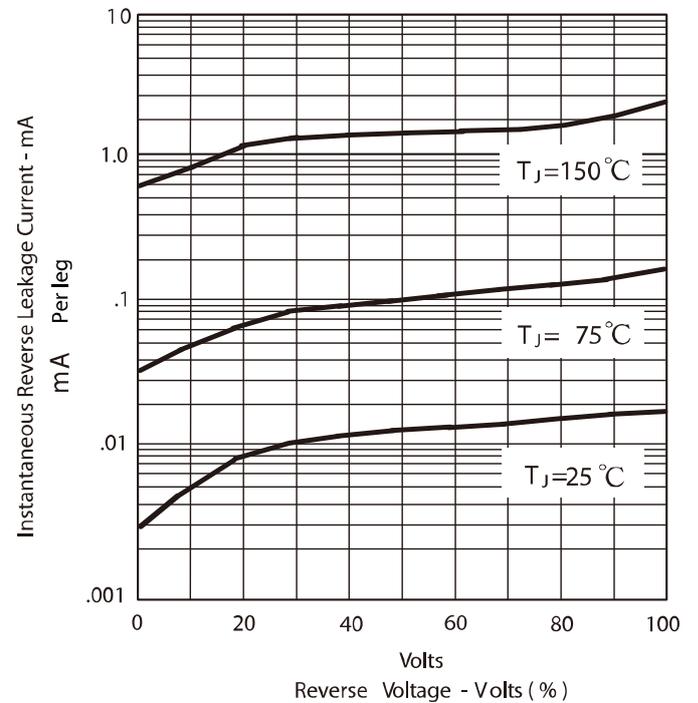


Figure .4 -Typical Reverse Characteristics



**Revision History**

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