

## SUPER FAST DIODE MODULE TYPE 60A

### Features

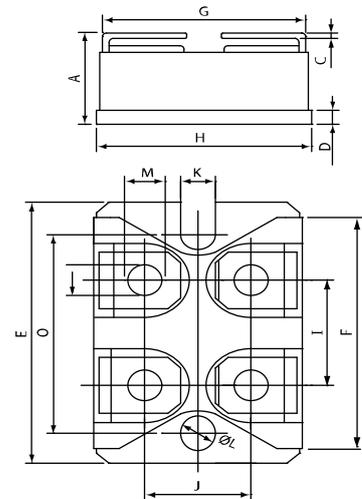
High Surge Capability  
 Type 200V  $V_{RRM}$   
 Isolation Type Package  
 Electrically Isolation base plate



### 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
GSXF030A020S1-D3	200V	140V	200V



### 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)	$V_F$	1.0 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 $\mu\text{A}$ 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  $\mu\text{sec}$ , Duty < 2%

	INCHES			
	MIN	MXA	MIN	MXA
A	.500	.519		13.20
B	.307	.322		8.20
C	.029	.033		.84
D	.077	.082		2.10
E	1.487	1.502		38.20
F	1.250	1.258		32.00
G	.931	.956		24.30
H	.996	1.007		25.60
I	.586	.594		15.10
J	.492	.516	13.50	13.10
K	.161	.169		4.30
L	.161	.16		4.30
M	.181	.19		4.95
N	.165	.17		4.50
O	1.184	1.19	30.10	30.30
P	M4*8			

Figure .1- Typical Forward Characteristics

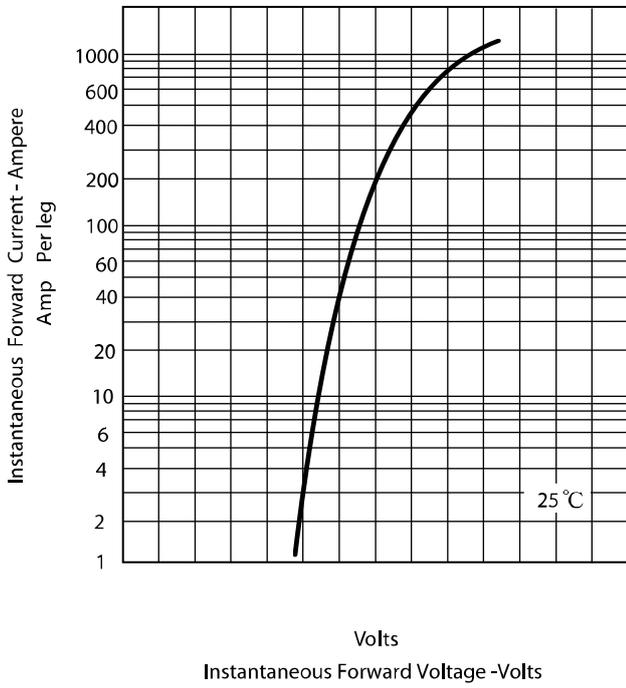


Figure.2 - Forward Derating Curve

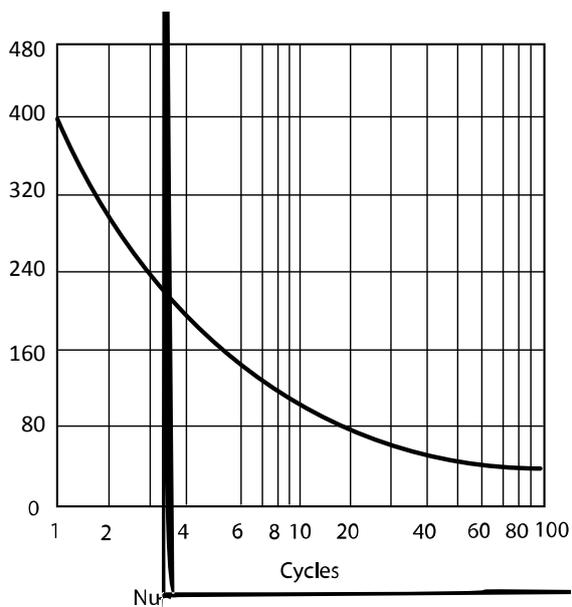
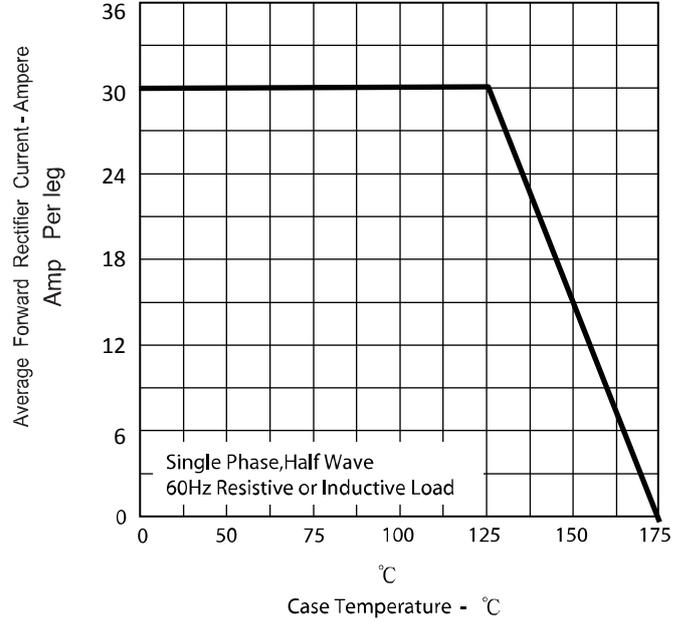
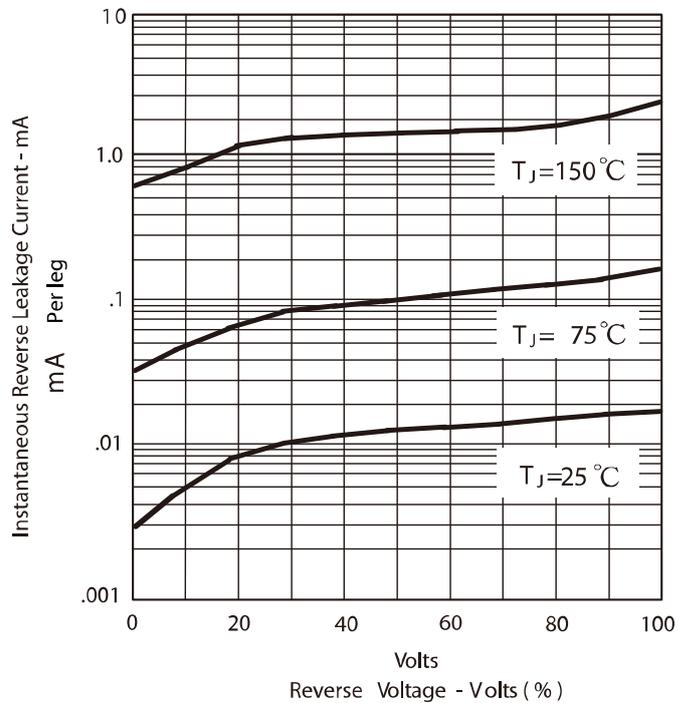


Figure .4 -Typical Reverse Characteristics



**Revision History**

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