

SCHOTTKY DIODE MODULE TYPE 240A

Features

High Surge Capability
Type 100V V_{RRM}
Isolation Type Package
Electrically Isolation base plate



Maximum Ratings

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

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GSXD120A010S1-D3	100V	70V	100V

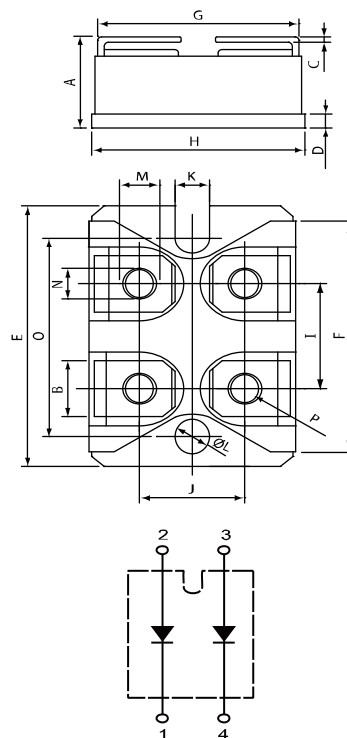
Electrical Characteristics @ 25 °C Unless Otherwise Specified.

Average Forward Current (Per pkg)	$I_{F(AV)}$	240A	$T_c = 110\text{ }^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	1500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (Per leg)	V_F	0.75V 0.84V	$I_{FM} = 120\text{A}; T_J = 125\text{ }^{\circ}\text{C}$ $I_{FM} = 120\text{A}; T_J = 25\text{ }^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	1 mA 10 mA 30 mA	$T_J = 25\text{ }^{\circ}\text{C}$ $T_J = 100\text{ }^{\circ}\text{C}$ $T_J = 150\text{ }^{\circ}\text{C}$
Isolation Voltage	V_{iso}	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.38°C/W	

NOTE :

(1) Pulse Test: Pulse Width 300 μ sec, Duty < 2%

SOT-227



DIM	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

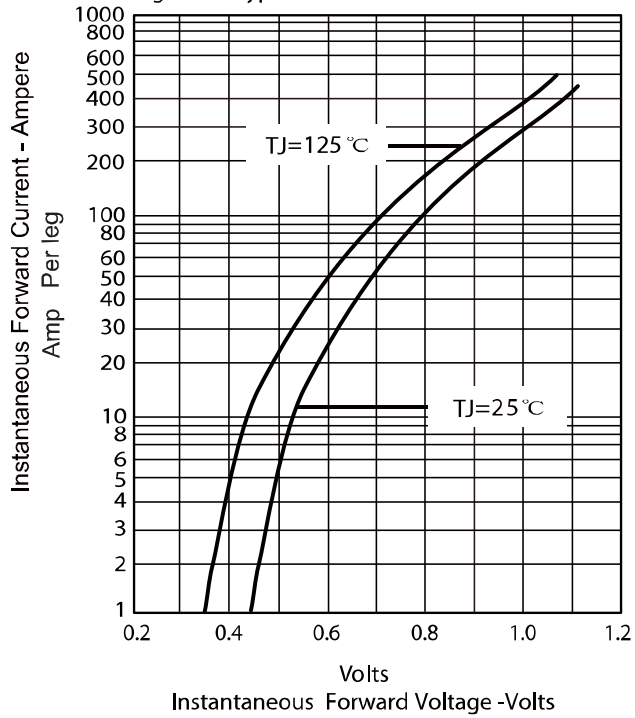
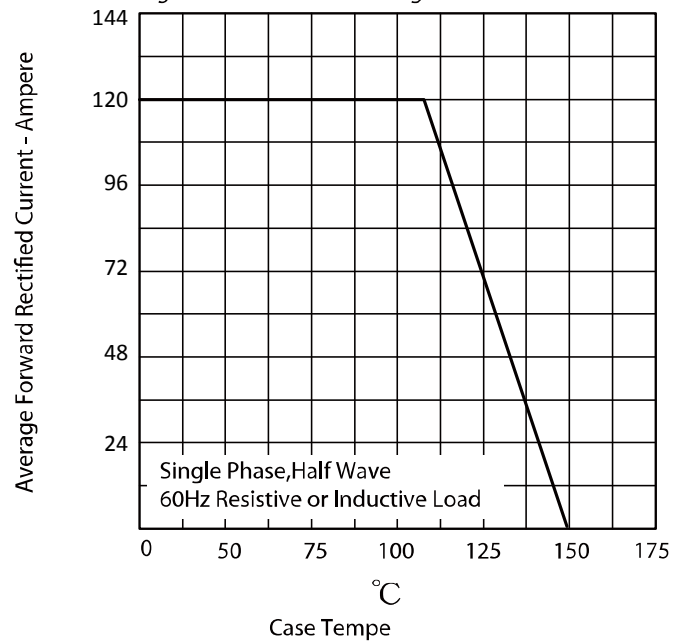
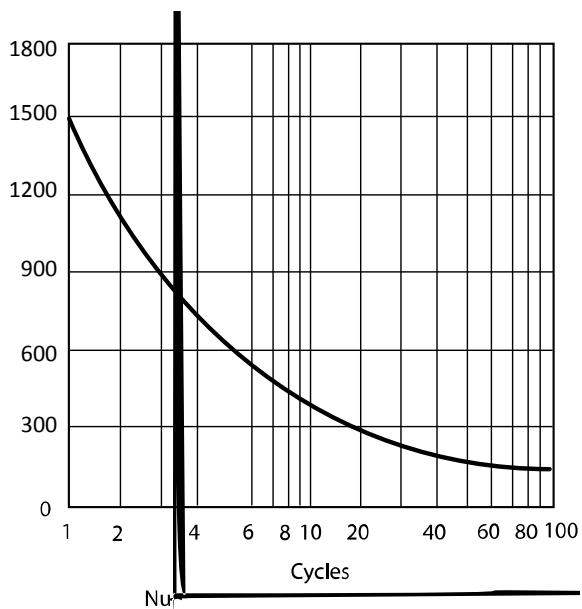
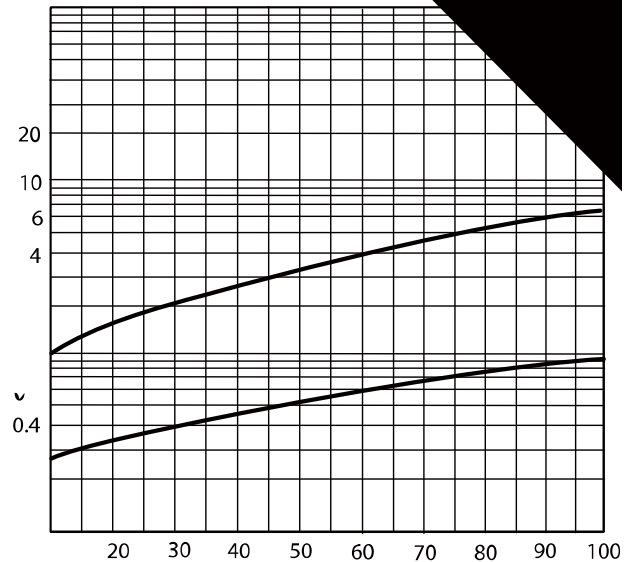


Figure .2- Forward Derating Curve



Revision History

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