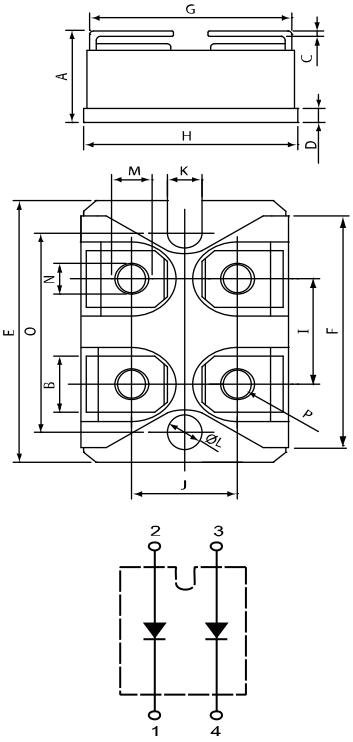
SCHOTTKY DIODE MODULE TYPE 160A

Features

High Surge Capability
Type 150 V V_{RRM}
Isolation Type Package
Electrically Isolation base plate

RoHS

SOT-227



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
GSXD080A015S1-D3	150V	105V	150V

Electrical Characteristics @ 25 ℃ Unless Otherwise Specified.

Average Forward Current (Per pkg)	$I_{F(AV)}$	160A	T_C=110 ℃
Peak Forward Surge Current (Per leg)	I_{FSM}	900A	8.3ms,half sine
Maximum Instantaneous Forward Voltage (Per leg)	V_F	0.76V 0.88V	I_{FM}=80A;T_J=125℃ I_{FM}=80A;T_J=25℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE(1)	I_R	3 mA 10 mA 30 mA	T_J=25℃ T_J=100℃ T_J=150℃
Isolation Voltage	V_{iso}	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per leg)	Rθjc	0.60℃/W	

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

DIMENSIONS				
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

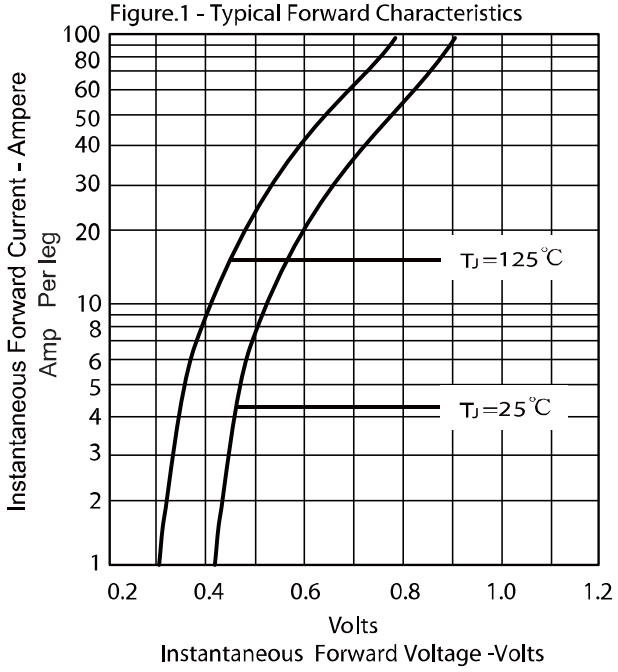
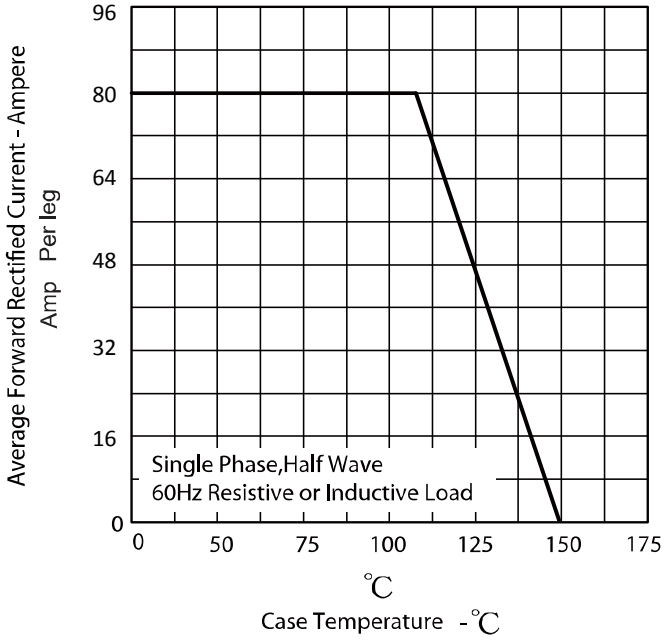


Figure .2- Forward Derating Curve



Figupre.3 - Peak Forward Surge Current

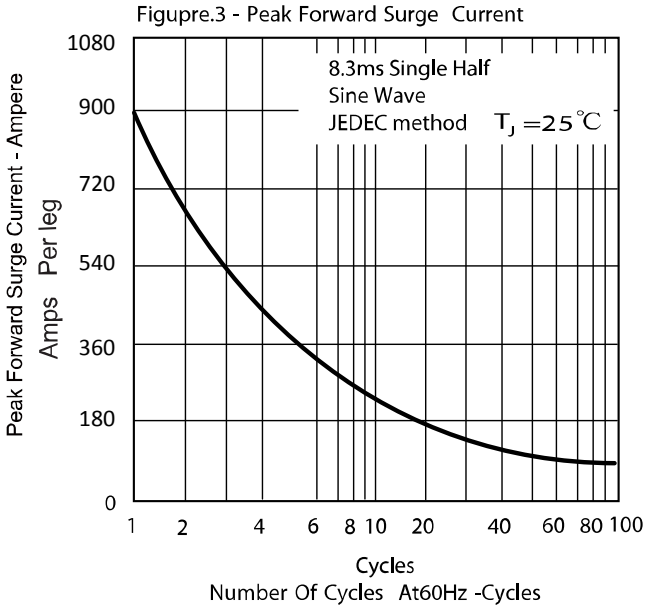
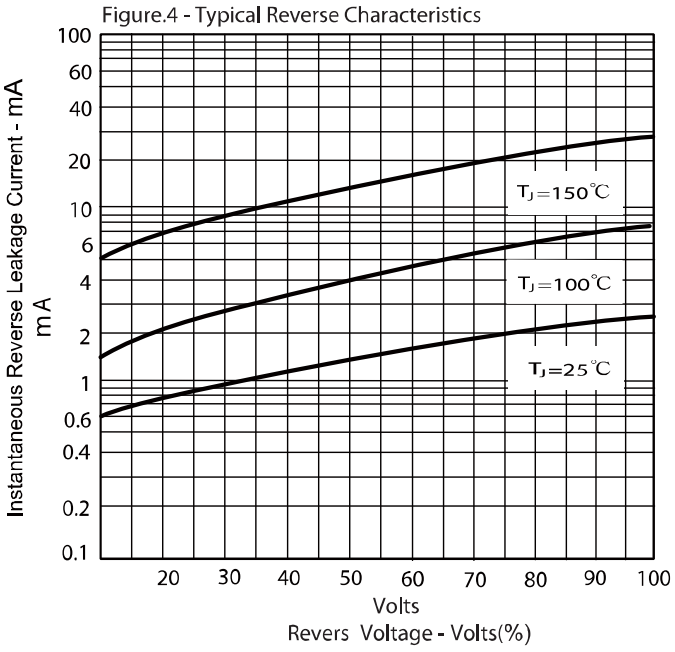


Figure.4 - Typical Reverse Characteristics



Revision History

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

Notes

RoHS Compliance

The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU Directive 2011/65/EC (RoHS2), as implemented March, 2013. RoHS Declarations for this product can be obtained from the Product Documentation sections of www.SemiQ.com.

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