

SCHOTTKY DIODE MODULE TYPE 2X80A / 100V

Features

High Surge Capability Type 100V VRRM Isolation Type Package Electrically Isolation Base Plate RoHS Compliant

Maximum Ratings

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

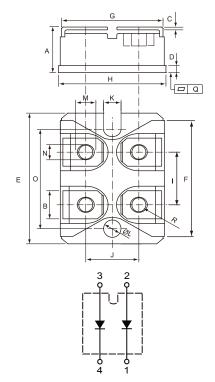
Part Number	Part Number Voltage		Maximum DC Blocking Voltage
GSXD080A010S1-D3	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward (Per pkg) Current (Per diode)	lf(AV)	160A 80A	Tc =110°C
Peak Forward Surge Current (Per diode)	IFSM	900A	8.3ms, half sine
Maximum (Per diode) Instantaneous Forward Voltage*	VF	0.75V 0.84V	Iғм =80А;Т」=125°С Iғм =80А;Т」=25°С
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	lr	1mA 10mA 30mA	T _J =25°C T _J =100°C T _J =150°C
Non-Repetitive (Per diode) Avalanche Energy	Eas	1733mJ	TJ =25°C, IAS =52A, L =1mH
Isolation Voltage	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	Røjc	0.60°C/W	
Mounting Torque		1.3Nm	M4 Screw

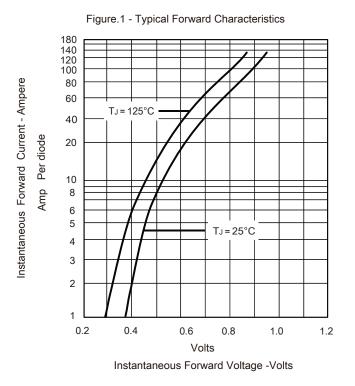
*Pulse Test: Pulse Width 300 μ sec, Duty Cycle < 2%





DIMENSIONS				
	INCHES		MM	
	MIN MAX		MIN	MAX
А	0.460	0.483	11.68	12.28
В	0.307	0.323	7.80	8.20
С	0.030	0.033	0.75	0.85
D	0.071	0.081	1.80	2.05
Е	1.488	1.504	37.80	38.20
F	1.248	1.260	31.70	32.00
G	0.917	0.957	23.30	24.30
Н	0.996	1.008	25.30	25.60
I	0.579	0.602	14.70	15.30
J	0.492	0.516	12.50	13.10
К	0.161	0.169	4.10	4.30
L	0.161	0.169	4.10	4.30
М	0.181	0.197	4.60	5.00
Ν	0.165	0.181	4.20	4.60
0	1.181	1.197	30.00	30.40
Q	-0.002	0.004	-0.05	0.10
R	M4*8			





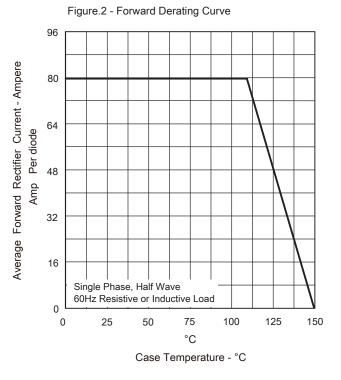
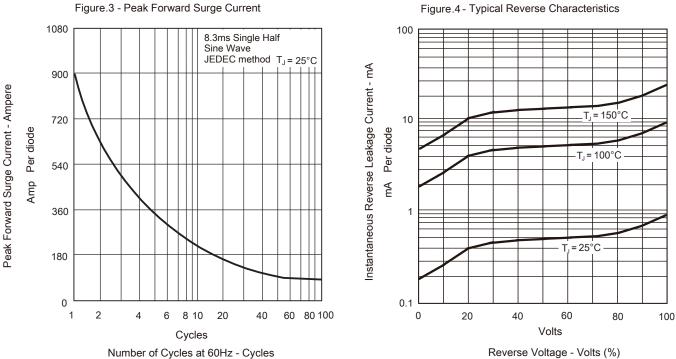


Figure.4 - Typical Reverse Characteristics



Reverse Voltage - Volts (%)



Revision History

Date	Revision	Notes
8/10/2014	1.0	Initial release
01/03/2020	1.1	Applied company name change
07/05/2022	1.2	Updated device parameters

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.

REACh Compliance

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