

SCHOTTKY DIODE MODULE TYPE 2X100A / 200V

Features

High Surge Capability
Type 200V V_{RRM}
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

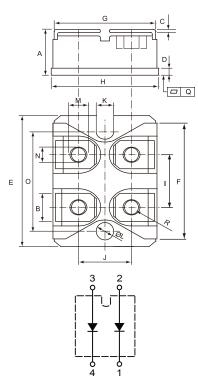
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GSXD100A020S1-D3	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward (Per pkg) Current (Per diode)	I F(AV)	200A 100A	Tc=110°C
Peak Forward Surge Current (Per diode)	İfsm	1400A	8.3ms, half sine
Maximum (Per diode) Instantaneous Forward Voltage*	VF	0.82V 0.92V	IFM =100A;Т _J =125°С IFM =100A;Т _J =25°С
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	lr	3mA 10mA 30mA	T _J =25°C T _J =100°C T _J =150°C
Non-Repetitive (Per diode) Avalanche Energy	Eas	1605mJ	T _J =25°C, I _{AS} =47.6A, L =1mH
Isolation Voltage	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	Røjc	0.40°C/W	
Mounting Torque		1.3Nm	M4 Screw

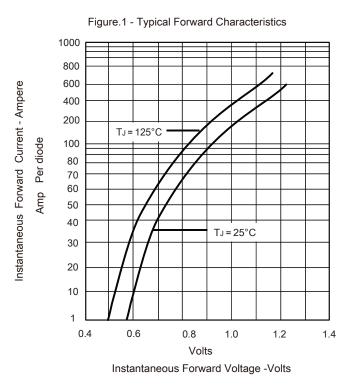
^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle < 2%





DIMENSIONS				
	INCHES		MM	
	MIN	MAX	MIN	MAX
Α	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
E	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
K	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
N	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			





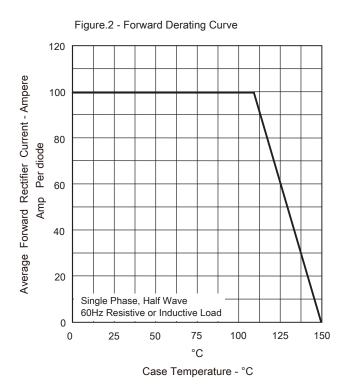
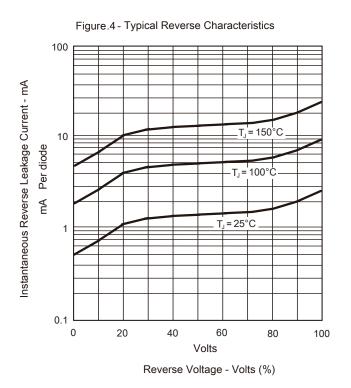


Figure.3 - Peak Forward Surge Current 1680 8.3ms Single Half Sine Wave JEDEC method $T_J = 25^{\circ}C$ 1400 Peak Forward Surge Current - Ampere 1120 Amp Per diode 840 560 280 0 2 4 8 10 20 40 60 80 100 Cycles Number of Cycles at 60Hz - Cycles





Data Sheet GSXD100A020S1-D3

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

REACh substances of high concern (SVHC) information is available for this product. Since the European Chemicals Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, please contact our office at SemiQ Headquarters in Lake Forest, California to insure you get the most up-to-date REACh SVHC Declaration. REACh banned substance information (REACh Article 67) is also available upon request.

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