

SCHOTTKY DIODE MODULE TYPE 2X160A / 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

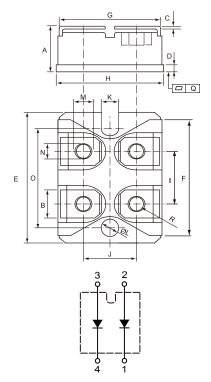
Part Number Part Number Voltage		Maximum RMS Voltage	Maximum DC Blocking Voltage
GSXD160A020S1-D3	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward (Per pkg) Current (Per diode)	F(AV)	320A 160A	Tc =110°C
Peak Forward Surge Current (Per diode)	IFSM	2000A	8.3ms, half sine
Maximum (Per diode) Instantaneous Forward Voltage*	VF	0.82V 0.92V	Iғм =160А;Т」 =125°С Iғм =160А;Т」 =25°С
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	IR	3mA 10mA 30mA	T _J =25°C T _J =100°C T _J =150°C
Non-Repetitive (Per diode) Avalanche Energy	Eas	2454mJ	TJ =25°C, IAS =60A, L =1mH
Isolation Voltage	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	Røjc	0.30°C/W	
Mounting Torque		1.3Nm	M4 Screw

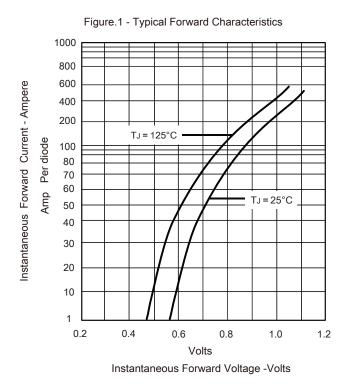
*Pulse Test: Pulse Width 300 μ sec, Duty Cycle < 2%





DIMENSIONS				
	INCHES		м	М
	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
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
К	0.161	0.169	4.10	4.30
L	0.161	0.169	4.10	4.30
M	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			





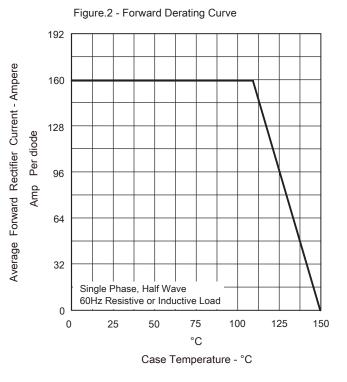
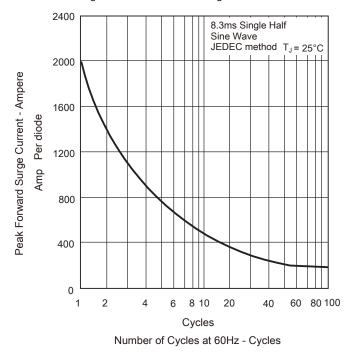
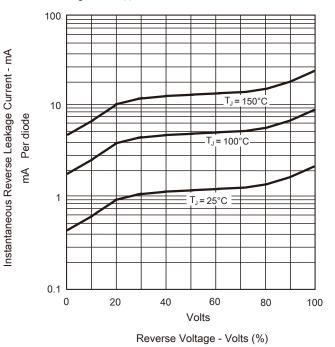


Figure.3 - Peak Forward Surge Current









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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