

# 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

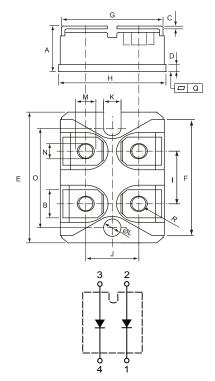
Part Number	Part Number Voltage		Maximum DC Blocking Voltage
GSXD080A010S1-D3	100V	70V	100V

## 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 <sub>J</sub> =25°C T <sub>J</sub> =100°C T <sub>J</sub> =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

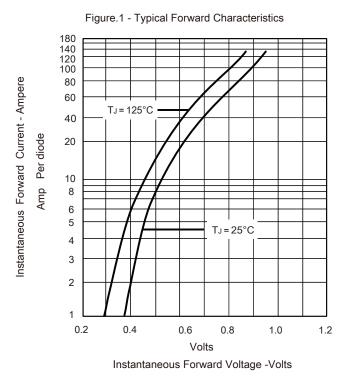
\*Pulse Test: Pulse Width 300  $\mu$ sec, Duty Cycle < 2%





DIMENSIONS				
	INCHES		м	M
	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			





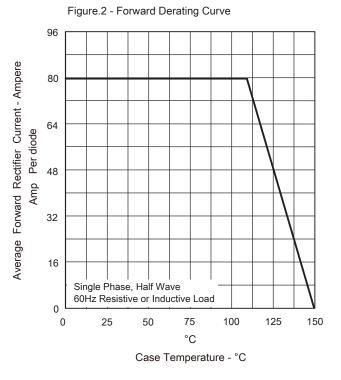
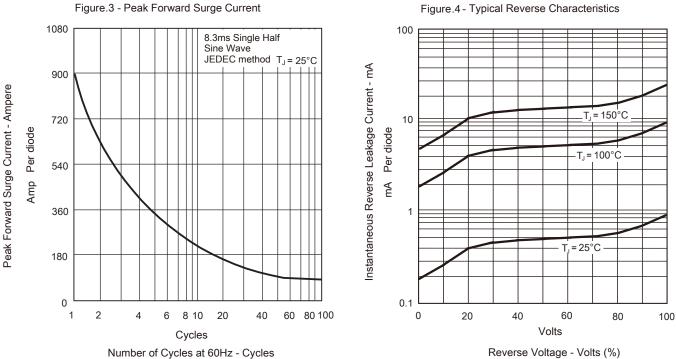


Figure.4 - Typical Reverse Characteristics



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**

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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