

### SCHOTTKY DIODE MODULE TYPE 320A

## **Features**

**High Surge Capability** Type 120 V VRRM Isolation Type Package Electrically Isolation base plate



## **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
GSXD160A012S1-D3	120V	84V	120V

Electrical Characteristics @ 25 ℃ Unless Otherwise Specified.

320A

2000A

0.80V

0.88V

3 mA

10 mA

30 mA

2500V

0.30°C/W

Tc=110℃

TJ=25℃

TJ=100℃

TJ=150℃

A.C. 1 minute

8.3 ms, half sine

IFM=160A;TJ=125℃

IFM=160A;TJ=25℃

IF(AV)

**I**FSM

VF

lκ

Viso

Rθic

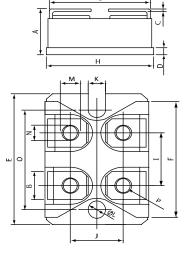
(Per pkg)

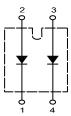
(Per leg)

NOTE(1)

(Per leg)

(Per leg)





		1 4	1	
		DIMENSION	S	
DIM	INCH	IES	M	M
	MIN	MXA	MIN	MXA
Α	.500	.519	12.70	13.20
В	.307	.322	7.80	8.20
С	.029	.033	.75	.84
D	.077	.082	1.95	2.10
Е	1.487	1.502	37.80	38.20
F	1.250	1.258	31.75	32.00
G	.931	.956	23.65	24.30
Н	996	1.007	25.30	25.60

### To Case

NOTE:

Average Forward

Peak Forward Surge

Maximum Instantaneous

Forward Voltage (Per leg)

Current

Current

Maximum

Voltage

Instantaneous

Reverse Current At

Rated DC Blocking

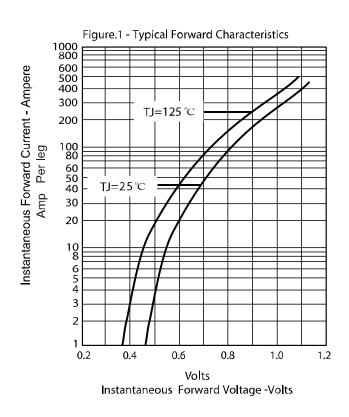
Isolation Voltage

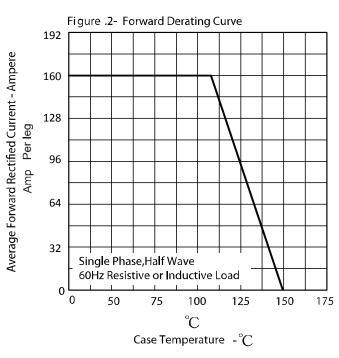
Maximum Thermal Resistance Junction

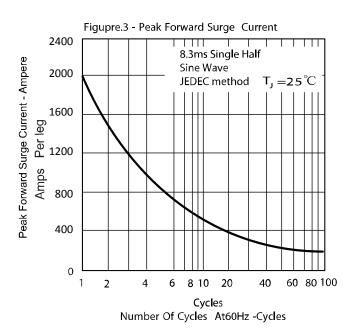
(1) Pulse Test: Pulse Width 300  $\mu$  sec, Duty<2%

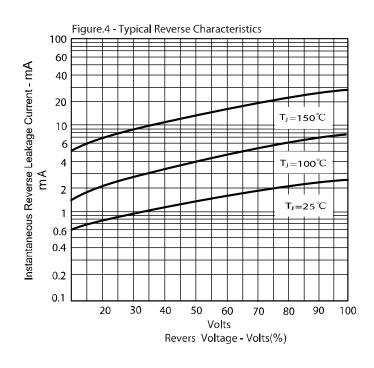
DIMENSIONS				
DIM	INCHES		ММ	
	MIN	MXA	MIN	MXA
Α	.500	.519	12.70	13.20
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F	1.250	1.258	31.75	32.00
G	.931	.956	23.65	24.30
Н	.996	1.007	25.30	25.60
1	.586	.594	14.90	15.10
J	.492	.516	12.50	13.10
K	.161	.169	4.10	4.30
Г	.161	.169	4.10	4.30
М	.181	.191	4.60	4.95
N	.165	.177	4.20	4.50
0	1.184	1.192	30.10	30.30
Р	M4*8			













# Data Sheet GSXD160A012S1-D3

### **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.

### **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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