

## **SCHOTTKY DIODE MODULE TYPE 240A**

## **Features**

High Surge Capability
Type 45V VRRM
Isolation Type Package
Electrically Isolation base plate

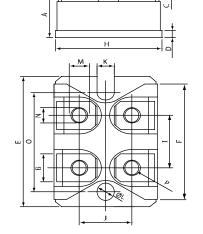


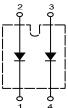
# **Maximum Ratings**

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

Part Number Part Number Peak Reverse Voltage		Maximum RMS Voltage	Maximum DC Blocking Voltage
GSXD120A004S1-D3 45V		32V	45V







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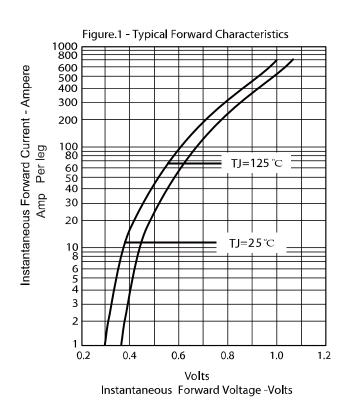
Average Forward Current (Per pkg)	IF(AV)	240A	Tc=110 ℃
Peak Forward Surge Current (Per leg)	lгsм	1500A	8.3ms,half sine
Maximum Instantaneous Forward Voltage (Per leg)	VF	0.64V 0.70V	IFM=120A;TJ=125℃ IFM=120A;TJ= 25℃
Maximum NOTE(1) Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	lR	1 mA 10 mA 30 mA	TJ=25℃ TJ=100℃ TJ=150℃
Isolation Voltage	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per leg)	Rθjc	0.38℃/W	

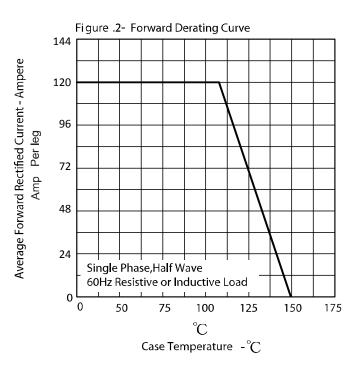
NOTE:

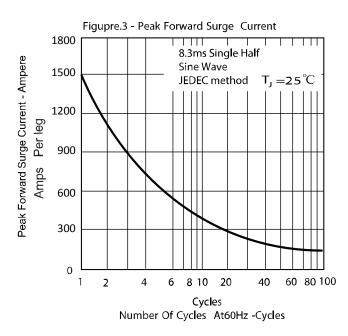
(1) Pulse Test: Pulse Width 300  $\mu$  sec, Duty < 2%

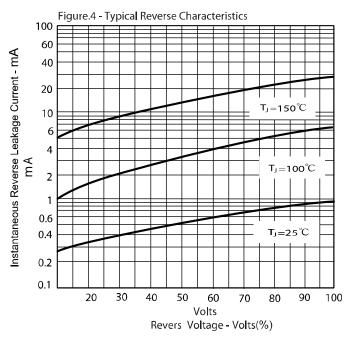
DIMENSIONS						
DIM	INCHES		ММ			
	MIN	MXA	MIN	MXA		
Α	.500	.519	12.70	13.20		
В	.307	.322	7.80	8.20		
С	.029	.033	.75	.84		
D	.077	.082	1.95	2.10		
E	1.487	1.502	37.80	38.20		
F	1.250	1.258	31.75	32.00		
G	.931	.956	23.65	24.30		
Н	.996	1.007	25.30	25.60		
I	.586	.594	14.90	15.10		
J	.492	.516	12.50	13.10		
K	.161	.169	4.10	4.30		
L	.161	.169	4.10	4.30		
M	.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 GSXD120A004S1-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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