

Features

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



Tc=110 ℃

A.C. 1 minute

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
GSXD060A004S1-D3	GSXD060A004S1-D3 45V		45V

Electrical Characteristics @ 25 °C Unless Otherwise Specified.

120A

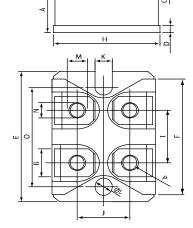
2500V

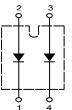
0.80°C/W

IF(AV)

(Per pkg)







Peak Forward Surge 800A 8.3 ms, half sine **I**FSM Current (Per leg) 0.64V IFM=60A;TJ=125℃ Maximum Instantaneous VF Forward Voltage (Per leg) 0.70V IFM=60A;TJ= 25℃ Maximum NOTE(1) TJ=25℃ Instantaneous 1 mA Reverse Current At ΙR 10 mA TJ=100℃ TJ=150℃ Rated DC Blocking 30 mA Voltage (Per leg)

NOTE:

To Case

Average Forward

Isolation Voltage

Maximum Thermal

Resistance Junction

Current

(1) Pulse Test: Pulse Width 300 μ sec, Duty<2%

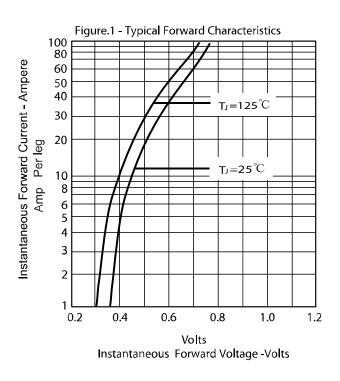
(Per leg)

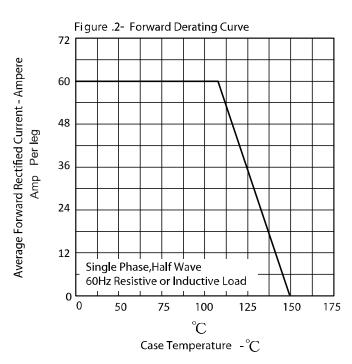
 V_{iso}

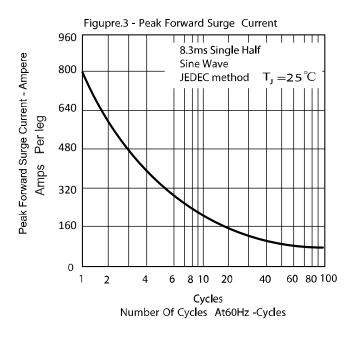
Rθjc

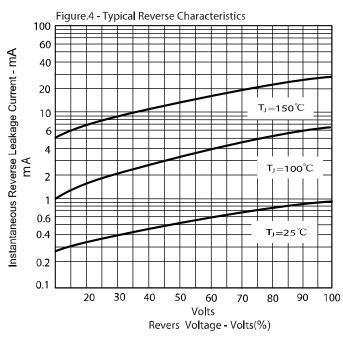
DIMENSIONS					
INCHES		ММ			
MIN	MXA	MIN	MXA		
.500	.519	12.70	13.20		
.307	.322	7.80	8.20		
.029	.033	.75	.84		
.077	.082	1.95	2.10		
1.487	1.502	37.80	38.20		
1.250	1.258	31.75	32.00		
.931	.956	23.65	24.30		
.996	1.007	25.30	25.60		
.586	.594	14.90	15.10		
.492	.516	12.50	13.10		
.161	.169	4.10	4.30		
.161	.169	4.10	4.30		
.181	.191	4.60	4.95		
.165	.177	4.20	4.50		
1.184	1.192	30.10	30.30		
M4*8					
	MIN .500 .307 .029 .077 .1.487 .1.250 .931 .996 .586 .492 .161 .181 .165	INCHES MIN MXA .500 .519 .307 .322 .029 .033 .077 .082 1.487 1.502 1.250 1.258 .931 .956 .996 1.007 .586 .594 .492 .516 .161 .169 .161 .169 .181 .191 .165 .177 1.184 1.192	INCHES M MIN MXA MIN .500 .519 12.70 .307 .322 7.80 .029 .033 .75 .077 .082 1.95 .1487 1.502 37.80 .1250 1.258 31.75 .931 .956 23.65 .996 1.007 25.30 .586 .594 14.90 .492 .516 12.50 .161 1.69 4.10 .181 .191 4.60 .165 .177 4.20 1.184 1.192 30.10		













Data Sheet GSXD0 0A0 S1-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.

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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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