

# SUPER FAST DIODE MODULE TYPE 60A

# **Features**

Average Forward

Peak Forward Surge

Maximum Instantaneous

Maximum Instantaneous Reverse Current At

Rated DC Blocking

Maximum Reverse

**Recovery Time** 

Isolation Voltage

Maximum Thermal

Resistance Junction

Forward Voltage\* (Per leg)

Current

Current

Voltage

To Case

High Surge Capability Type 1000V VRRM Isolation Type Package Electrically Isolation base plate



# **Maximum Ratings**

Operating Temperature: -55 °C to +175 °C Storage Temperature: -55 °C to +175 °C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GSXF030A100S1-D3	1000V	700V	1000V

Electrical Characteristics @ 25  $^{\circ}$  Unless Otherwise Specified.

F(AV)

FSM

VF

ĺR

Trr

Viso

Rθic

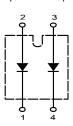
(Per pkg)

(Per leg)

(Per leg)

60 A

1.2 °C/W



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400 A	8.3ms,half sine	
2.35 V	IFM=30A;TJ=25℃	
25 uA 3 mA	TJ=25℃ TJ=150℃	
85 ns	IF=0.5A, IR=1.0A IRR=0.25A	
2500 V	A.C. 1 minute	

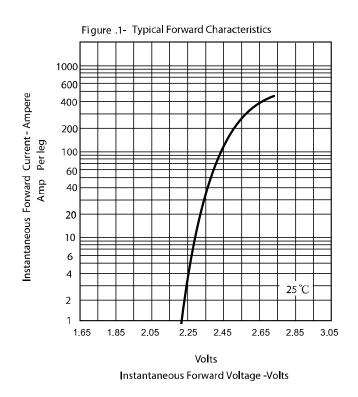
Tc=125 ℃

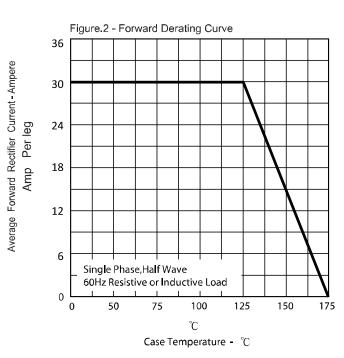
(Per leg)

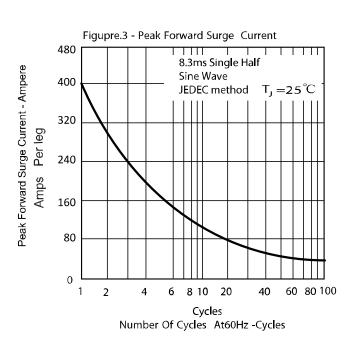
DIMENSIONS				
DIM	INCHES		MM	
	MIN	MXA	MIN	MXA
Α	.500	.519	12.70	13.20
В	.307	.322	7.80	8.20
С	.029	.033	.75	.84
D	.077	.082	1.95	2.10
Е	1.487	1.502	37.80	38.20
F	1.250	1.258	31.75	32.00
G	.931	.956	23.65	24.30
Н	.996	1.007	25.30	25.60
ı	.586	.594	14.90	15.10
J	.492	.516	12.50	13.10
K	.161	.169	4.10	4.30
L	.161	.169	4.10	4.30
М	.181	.191	4.60	4.95
Ν	.165	.177	4.20	4.50
0	1.184	1.192	30.10	30.30
Р	M4*8			

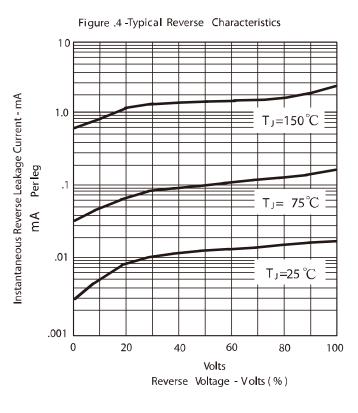
Pulse Test: Pulse Width 300  $\mu$  sec, Duty < 2%













## **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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