

SUPER FAST DIODE MODULE TYPE 120A

Features

High Surge Capability
Type 400V VRRM
Isolation Type Package
Electrically Isolation base plate

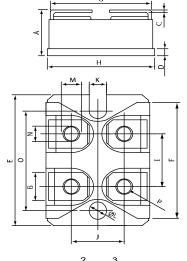


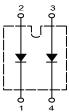
Maximum Ratings

Operating Temperature : -55 $^{\circ}$ C to +175 $^{\circ}$ C Storage Temperature : -55 $^{\circ}$ C to +175 $^{\circ}$ C

Part Number Maximum Recurrent Peak Reverse Voltage		Maximum RMS Voltage	Maximum DC Blocking Voltage
GSXF060A040S1-D3 400V		280V	400V

SOT-227



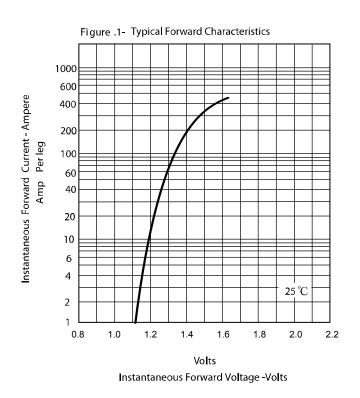


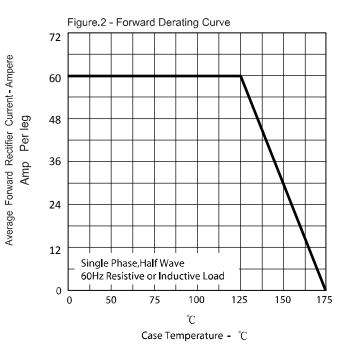
Average Forward Current (Per pkg)	I F(AV)	120 A	Tc=125℃
Peak Forward Surge Current (Per leg)	İFSM	900 A	8.3ms,half sine
Maximum Instantaneous Forward Voltage* (Per leg)	VF	1.3 V	IFM=60A;TJ=25℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	lR	25 uA 3 mA	TJ=25℃ TJ=150℃
Maximum Reverse Recovery Time (Per leg)	Trr	75 ns	IF=0.5A, IR=1.0A IRR=0.25A
Isolation Voltage	Viso	2500 V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per leg)	Rθjc	0.8 ℃/W	

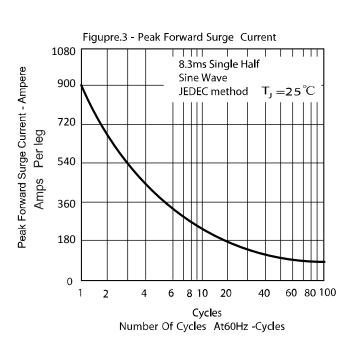
^{*} Pulse Test: Pulse Width 300 μ sec, Duty<2%

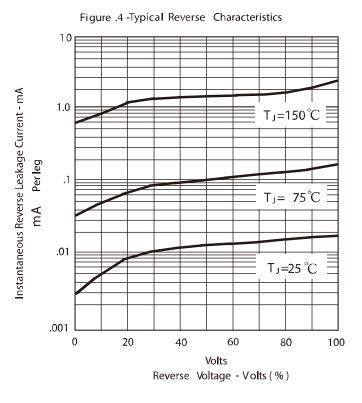
DIMENSIONS					
DIM .	INCHES		MM		
	MIN	MXA	MIN	MXA	
Α	.500	.519	12.70	13.20	
В	.307	.322	7.80	8.20	
С	.029	.033	.75	.84	
D	.077	.082	1.95	2.10	
Е	1.487	1.502	37.80	38.20	
F	1.250	1.258	31.75	32.00	
G	.931	.956	23.65	24.30	
Н	.996	1.007	25.30	25.60	
I	.586	.594	14.90	15.10	
J	.492	.516	12.50	13.10	
K	.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 GSXF060A040S1-D3











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.gptechgroup.com.

REACh Compliance

REACh substances of high concern (SVHCs) information is available for this product. Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, please contact our office at GPTG 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.

- This product has not been designed or tested for use in, and is not intended for use in, applications implanted into the human body nor in applications in which failure of the product could lead to death, personal injury or property damage, including but not limited to equipment used in the operation of nuclear facilities, life-support machines, cardiac defibrillators or similar emergency medical equipment, aircraft navigation or communication or control systems, or air traffic control.
- To obtain additional technical information or to place an order for this product, please contact us. The
 information in this datasheet is provided by Global Power Technologies Group. GPTG reserves the right to make
 changes, corrections, modifications, and improvements of datasheet without notice.

Revision History

Date	Revision	Notes
8/10/2014	1.0	Initial release

Global Power Technologies Group

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