G1001 THRU G1010

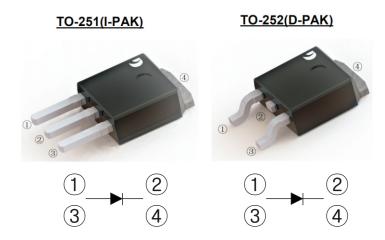
GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 100 to 1000 V

Forward Current - 10 A

FEATURES

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- · High temperature soldering guaranteed
- Mounting position: any

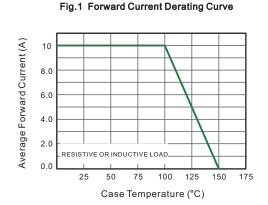


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified

CHARACTERISTICS	TO-251	G1001VS	G1002VS	G1004VS	G1006VS	G1008VS	G1010VS					
CHARACTERISTICS	TO-252	G1001DS	G1002DS	G1004DS	G1006DS	G1008DS	G1010DS	Units				
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V				
Maximum RMS voltage	V _{RMS}	70	70 140		420	560	700	V				
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V				
Maximum Average Forward Rectified Current	I _{F(AV)}	10										
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	gle Half Sine-wave Superimposed I _{FSM} 180											
Max Instantaneous Forward Voltage at 10 A DC	V _F 1.1											
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a = 125°C												
Typical Junction Capacitance (1)	C_{j}	150										
Typical Thermal Resistance (2)	I Thermal Resistance (2) ReJC 35											
Operating Junction Temperature Range	Tj	T _j -55 ~ +150										
Storage Temperature Range	Temperature Range T_{stg} $-55 \sim +150$											

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

⁽²⁾ P.C.B. mounted with 10cmX10cmX1mm copper pad areas.



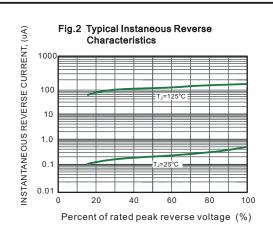


Fig.3 Typical Forward Characteristic

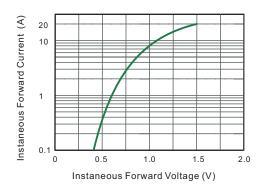


Fig.4 Typical Junction Capacitance

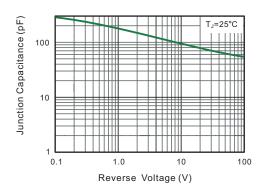
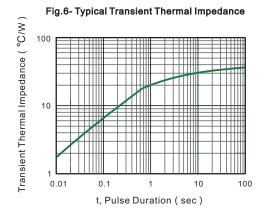
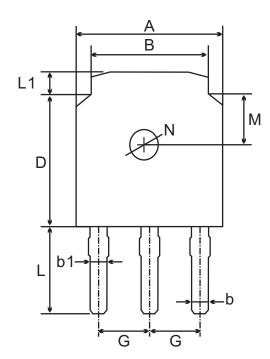
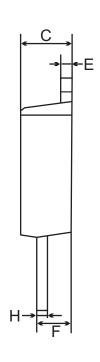


Fig.5 Maximum Non-Repetitive Peak **Forward Surage Current** 200 Peak Forward Surage Current (A) 180 160 140 120 100 80 60 40 8.3 ms Single Half Sine Wave (JEDEC Method) 20 00 100 Number of Cycles at 60Hz



TO-251(D-PAK) Package Outline Dimensions





TO-251(I-PAK) mechanical data

UN	1IT	Α	В	b	b1	С	D	E	F	G	Н	L	L1	М	N	
mm	max	6.7	5.5	0.8	0.9	2.5	6.3	0.6	1.8	2.29	0.55	4.3	1.2	1.8	1.3	
mm	min	6.3	5.1	0.3	0.76	2.1	5.9	0.4	1.3	TYPICAL	0.45	3.9	0.8	TYPICAL	TYPICAL	
mil	max	264	217	31	35	98	248	24	71	90	22	169	47	71	51	
mii	min	248	201	12	30	83	232	16	51	TYPICAL	18	154	31	TYPICAL	TYPICAL	

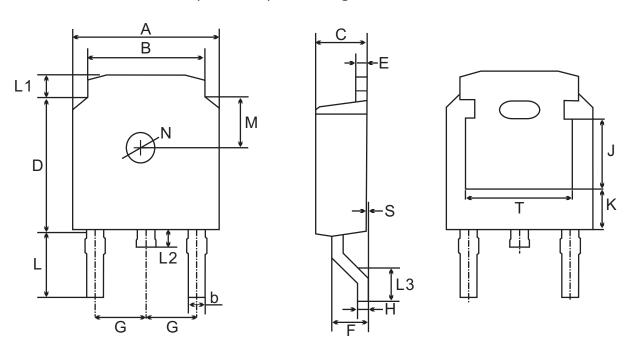
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TO-252(D-PAK) Package Outline Dimensions



TO-252(D-PAK) mechanical data

UN	VIT.	Α	В	b	С	D	Е	F	G	Н	L	L1	L2	L3	S	М	N	J	K	Т
	max	6.7	5.5	0.8	2.5	6.3	0.6	1.8	2.29	0.55	3.1	1.2	1.0	1.75	0.1	1.0		3.16 ref.		4.83
mm	min	6.3	5.1	0.3	2.1	5.9	0.4	1.3	TYPICAL	0.45	2.7	0.8	0.6	1.40	0.0					ref.
	max	264	217	31	98	248	24	71	90	22	122	47	39	69	4	71	51	124	71	190
mil	min	248	201	12	83	232	16	51	TYPICAL	18	106	31	24	55	0	TYPICAL	TYPICAL	ref.	ref.	ref.

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