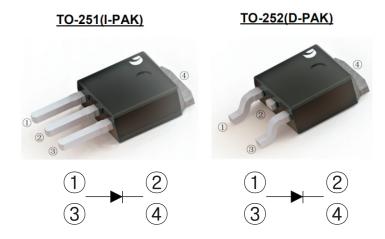
GLASS PASSIVATED RECTIFIERS Reverse Voltage - 100 to 1000 V Forward Current - 5.0 A

FEATURES

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

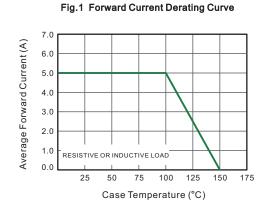


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified

CHARACTERISTICS	TO-251	G501VS	G502VS	G504VS	G506VS	G508VS	G510VS	Units				
CHARACTERISTICS	TO-252	G501DS	G502DS	G504DS	G506DS	G508DS	G510DS	Omits				
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V				
Maximum RMS voltage	V_{RMS}	70	140	280	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)}	5.0										
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM} 150											
Max Instantaneous Forward Voltage at 5 A DC	V _F	1.1										
Maximum DC Reverse Current $T_a = 25$ °C at Rated DC Reverse Voltage $T_a = 125$ °C	I _R	5 500										
Typical Junction Capacitance (1)	cal Junction Capacitance (1) C _j 50											
Typical Thermal Resistance (2)	al Thermal Resistance (2) R _{BJC} 25											
Operating Junction Temperature Range	Tj	-55 ~ +150										
Storage Temperature Range	T_{stg}	-55 ~ +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.



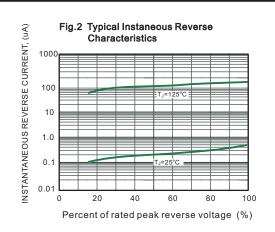


Fig.3 Typical Forward Characteristic

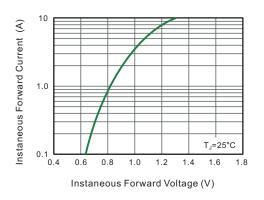


Fig.4 Typical Junction Capacitance

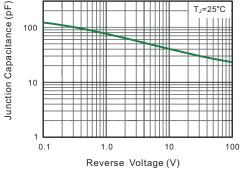


Fig.5 Maximum Non-Repetitive Peak **Forward Surage Current**

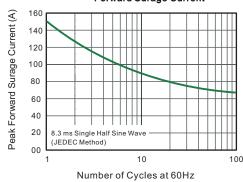
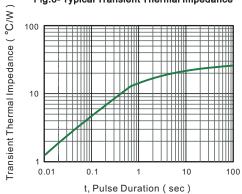
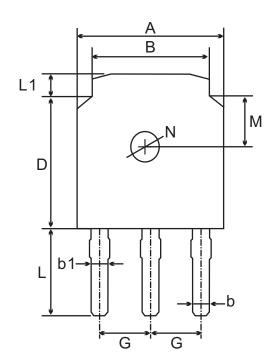
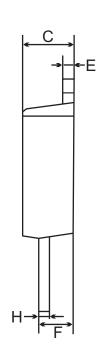


Fig.6- Typical Transient Thermal Impedance



TO-251(D-PAK) Package Outline Dimensions





TO-251(I-PAK) mechanical data

UN	NIT.	А	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	

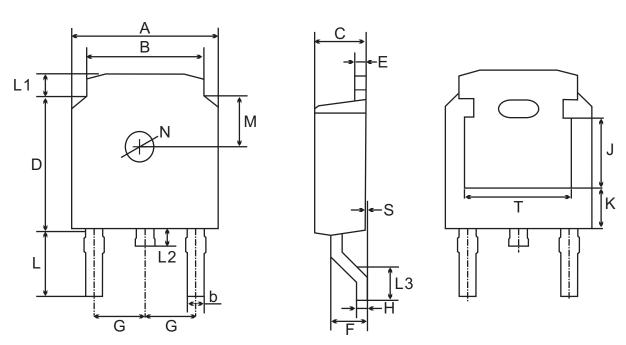
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TO-252(D-PAK) Package Outline Dimensions



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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