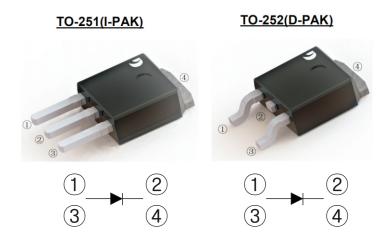
GLASS PASSIVATED RECTIFIERS Reverse Voltage - 100 to 1000 V

Forward Current - 4.0 A

FEATURES

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

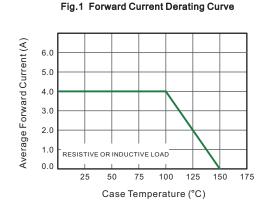


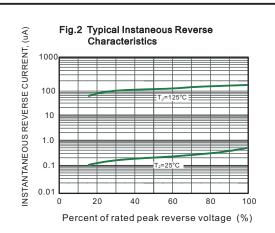
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified

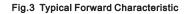
CHARACTERISTICS	TO-251	G401VS	G402VS	G404VS	G406VS	G408VS	G410VS	Units				
CHARACTERISTICS	TO-252	G401DS	G402DS	G404DS	G406DS	G408DS	G410DS	Oilita				
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V				
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V				
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V				
Maximum Average Forward Rectified Current	I _{F(AV)}	4.0										
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	I _{FSM} 140										
Max Instantaneous Forward Voltage at 4 A DC	V _F	1.1										
Maximum DC Reverse Current $T_a = 25^{\circ}$ C at Rated DC Reverse Voltage $T_a = 125^{\circ}$ C	I _R	I _R 5 500										
Typical Junction Capacitance (1)	Il Junction Capacitance (1) C _j 50											
Typical Thermal Resistance (2)	R _{θJC} 25											
Operating Junction Temperature Range	Tj	-55 ~ +150										
Storage Temperature Range	T_{stg}	-55 ~ +150										

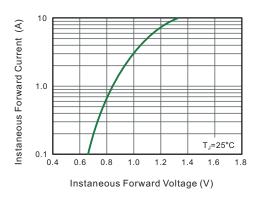
^(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

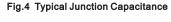
⁽²⁾ P.C.B. mounted with 10cmX10cmX1mm copper pad areas.











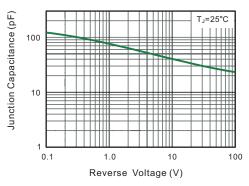


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

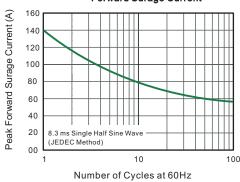
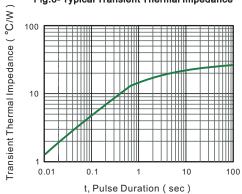
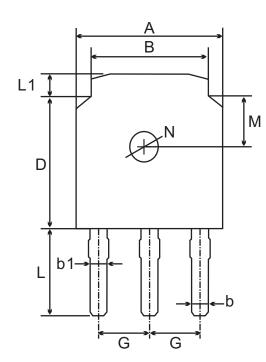
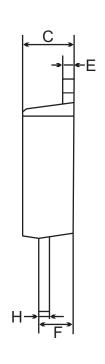


Fig.6- Typical Transient Thermal Impedance



TO-251(D-PAK) Package Outline Dimensions





TO-251(I-PAK) mechanical data

UN	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 TYPICAL
	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	
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

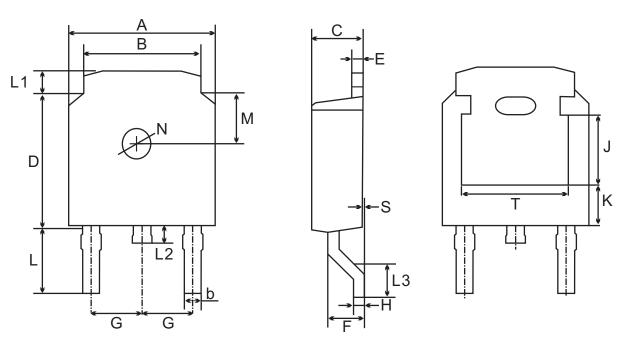
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TO-252(D-PAK) Package Outline Dimensions



TO-252(D-PAK) mechanical data

UN	TIV	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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