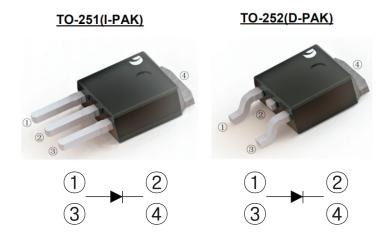
### G601 THRU G610

### GLASS PASSIVATED RECTIFIERS Reverse Voltage - 100 to 1000 V

Forward Current - 6.0 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	G601VS	G602VS	G604VS	G606VS	G608VS	G610VS	Units				
CHARACTERISTICS	TO-252	G601DS	G602DS	G604DS	G606DS	G608DS	G610DS					
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 <sub>DC</sub>	100	200	400	600	800	1000	V				
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	6.0										
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	primposed I <sub>FSM</sub> 160											
Max Instantaneous Forward Voltage at 6 A DC	V <sub>F</sub>	1.1										
Maximum DC Reverse Current $T_a = 25^{\circ}$ C at Rated DC Reverse Voltage $T_a = 125^{\circ}$ C												
Typical Junction Capacitance (1)	C <sub>j</sub>	50										
Typical Thermal Resistance (2)	Thermal Resistance (2) R <sub>BJC</sub> 25											
Operating Junction Temperature Range	Tj	-55 ~ +150										
Storage Temperature Range	Temperature Range T <sub>stg</sub> -55 ~ +150											

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

<sup>(2)</sup> P.C.B. mounted with 10cmX10cmX1mm copper pad areas.

100

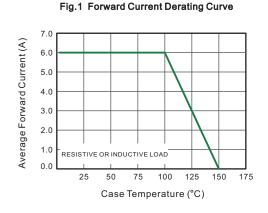
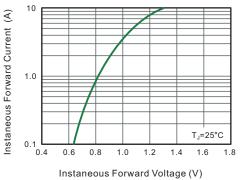


Fig.3 Typical Forward Characteristic



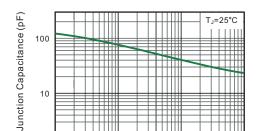
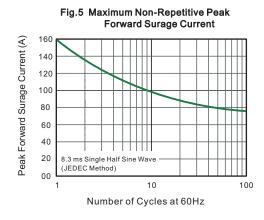
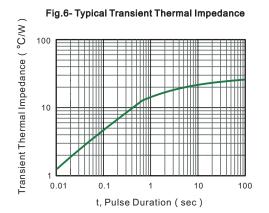


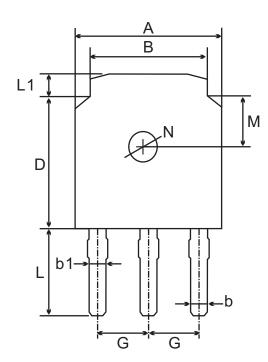
Fig.4 Typical Junction Capacitance

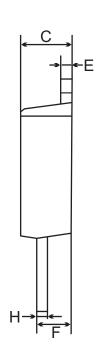






### TO-251(I-PAK) Package Outline Dimensions





TO-251(I-PAK) mechanical data

UN	NIT.	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
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	
mil	max	264	217	31	35	98	248	24	71	90	22	169	47	71	51
mil	min	248	201	12	30	83	232	16	51	TYPICAL	18	154	31	TYPICAL	TYPICAL

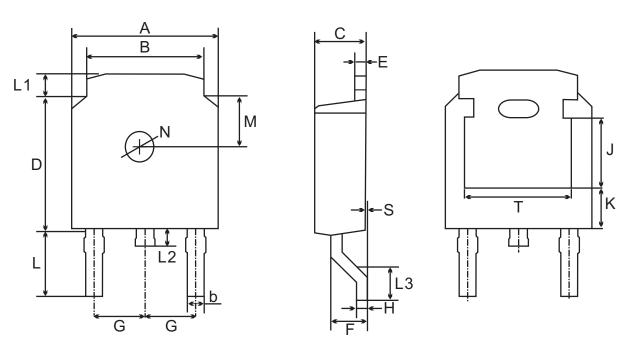
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## TO-252(D-PAK) Package Outline Dimensions



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	1.8 TYPICAL		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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