GLASS PASSIVATED RECTIFIERS	<u>TO-251(I-PAK)</u>	TO-252(D-PAK)				
Reverse Voltage - 100 to 1000 V						
Forward Current - 3.0 A	3	4				
FEATURES High current capability Low forward voltage drop Low power loss, high efficiency 						
 High surge capability High temperature soldering guaranteed Mounting position: any 	$\begin{array}{c} 1 \\ \hline 3 \end{array} \rightarrow \begin{array}{c} 2 \\ \hline 4 \end{array}$	$ \begin{array}{c} 1 \\ 3 \end{array} \rightarrow \begin{array}{c} 2 \\ 4 \end{array} $				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

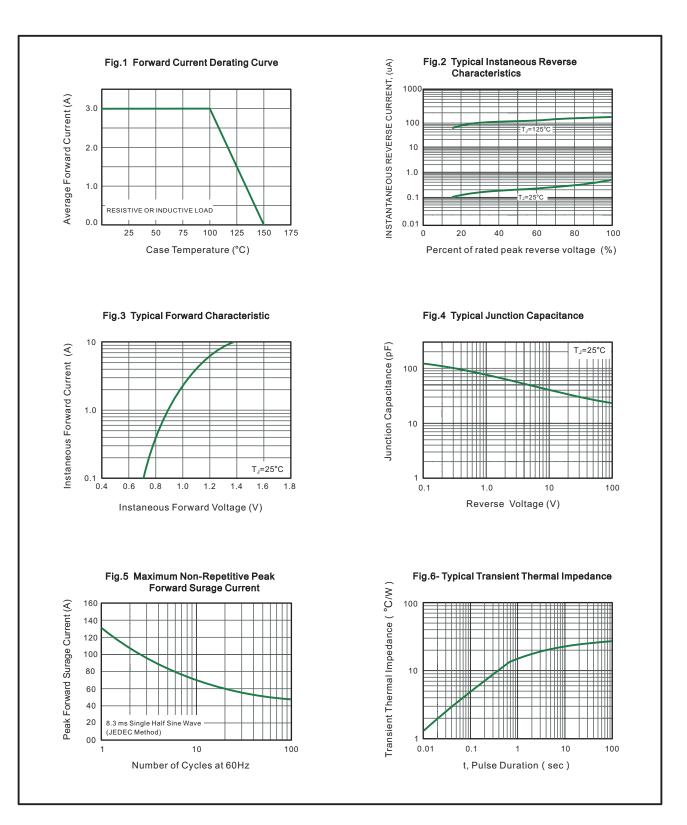
Ratings at 25°C ambient temperature unless otherwise specified

CHARACTERISTICS	TO-251	G301VS	G302VS	G304VS	G306VS	G308VS	G310VS	Units			
CHARACTERISTICS	TO-252	G301DS	G302DS	G304DS	G306DS	G308DS	G310DS				
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	d Current I _{F(AV)} 3.0										
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	130									
Max Instantaneous Forward Voltage at 3 A DC	VF	1.1									
Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Reverse Voltage $T_a = 125^{\circ}C$	I _R	5 500									
Typical Junction Capacitance ⁽¹⁾	Cj	C _j 50									
Typical Thermal Resistance ⁽²⁾	R _{θJC}	25									
Operating Junction Temperature Range	Tj	-55 ~ +150									
Storage Temperature Range	T _{stg}	-55 ~ +150									

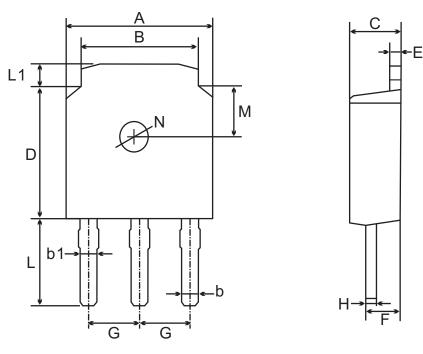
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

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TO-251(I-PAK) Package Outline Dimensions



TO-251(I-PAK) mechanical data

ι	JNIT	A	В	b	b1	С	D	Е	F	G	G H L L		L1	М	Ν	
	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	3.9	0.8	TYPICAL	TYPICAL	
mi	max	264	217	31	35	98	248	24	71	90	22 169 47 71		71	51		
	min	248	201	12	30	83	232	16	51	TYPICAL	18	154	31	TYPICAL	TYPICAL	

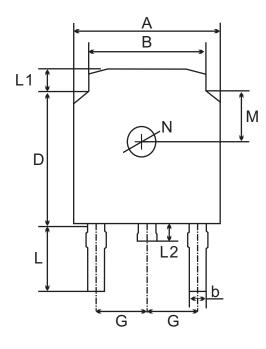
Important Notice and Disclaimer

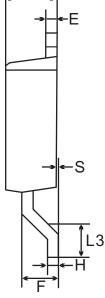
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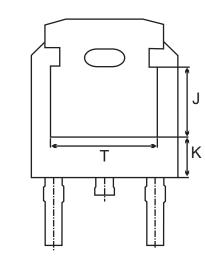
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TO-252(D-PAK) mechanical data

U	IIT	А	В	b	С	D	Е	F	G	Н	L	L1	L2	L3	S	М	Ν	J	К	Т
mm	max	6.7	5.5	0.8	2.5	6.3	0.6		Z.29	0.55			1.0	1.75	0.1	1.8 TYPICAL	-	3.16 ref.	1.80	4.83
	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.	ref.
mil	max	264	217	31	98	248	24	71	90	22	122	47	39	69	4	71	51	124	71	190
	min	248	201	12	83	232	16	51	TYPICAL	18	106	31	24	55	0	TYPICAL	TYPICAL	ref.	ref.	ref.

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