GLASS PASSIVATED RECTIFIERS	<u>TO-251(I-PAK)</u>	<u>TO-252(D-PAK)</u>
Reverse Voltage - 100 to 1000 V		
Forward Current - 5.0 A	3	4
FEATURES  • High current capability • Low forward voltage drop • Low power loss, high efficiency		
<ul> <li>High surge capability</li> <li>High temperature soldering guaranteed</li> <li>Mounting position: any</li> </ul>	$\begin{array}{c} 1 \\ 3 \end{array} \rightarrow \begin{array}{c} 2 \\ 4 \end{array}$	$ \begin{array}{c} 1 \\ 3 \end{array} \rightarrow \begin{array}{c} 2 \\ 4 \end{array} $

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

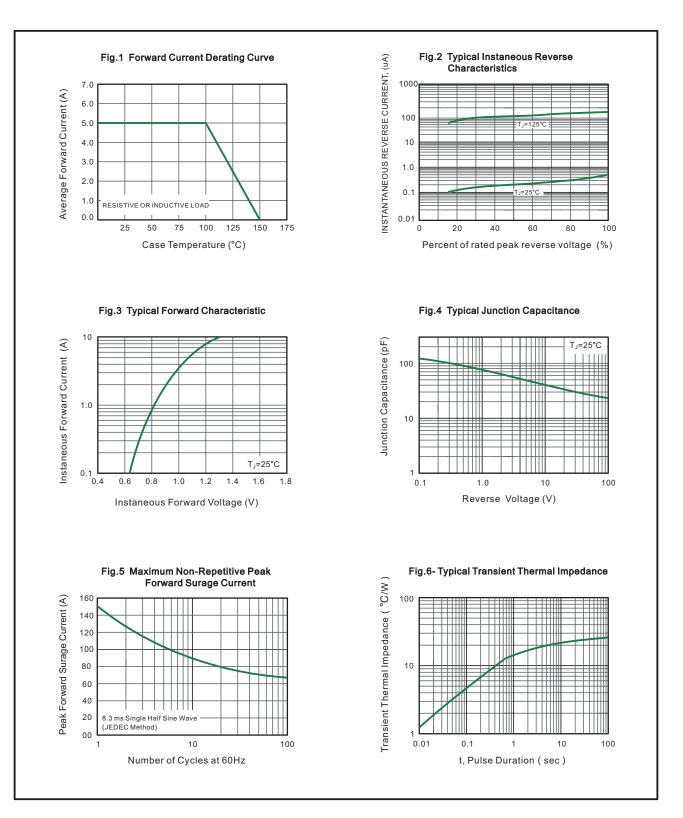
Ratings at 25°C ambient temperature unless otherwise specified

CHARACTERISTICS	TO-251	G501VS	G502VS	G504VS	G506VS	G508VS	G510VS	Units			
CHARACTERISTICS	TO-252	G501DS	G502DS	G504DS	G506DS	G508DS	G510DS				
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	100	200	400	600	800	1000	V			
Maximum RMS voltage	V <sub>rms</sub>	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> 5.0										
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	150									
Max Instantaneous Forward Voltage at 5 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 <sub>R</sub>	5 500									
Typical Junction Capacitance (1)	C <sub>j</sub> 50										
Typical Thermal Resistance <sup>(2)</sup>	$R_{ extsf{ heta}_{JC}}$	25									
Operating Junction Temperature Range	Tj	-55 ~ +150									
Storage Temperature Range	T <sub>stg</sub>	-55 ~ +150									

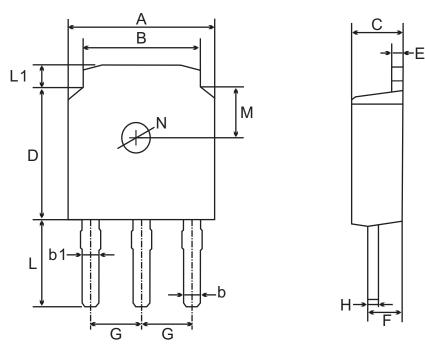
( 1 ) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

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



TO-251(I-PAK) mechanical data

1U	ΠI	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	
mil	min	248	201	12	30	83	232	16	51	TYPICAL	18	154	31	TYPICAL	TYPICAL	

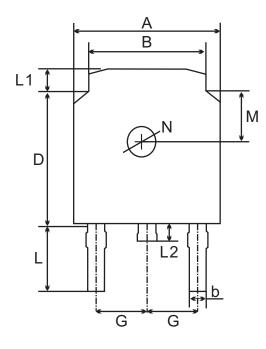
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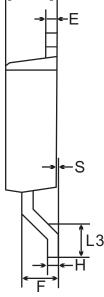
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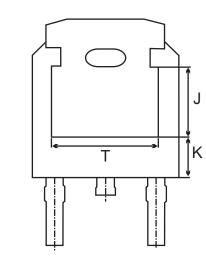
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TO-252(D-PAK) mechanical data

U	Π	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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