GLASS PASSIVATED RECTIFIERS	<u>TO-251(I-PAK)</u>	<u>TO-252(D-PAK)</u>				
Reverse Voltage - 100 to 1000 V						
Forward Current - 10 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 \\ 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	G1001VS	G1001VS G1002VS G		G1006VS	G1008VS	G1010VS					
CHARACTERISTICS	TO-252	G1001DS	G1002DS	G1008DS G1010DS		Units						
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub> 100 200 400 600 800					800	1000	V				
Maximum RMS voltage	$V_{\text{RMS}}$	70	140	280	420	560	700	V				
Maximum DC Blocking Voltage	$V_{\text{DC}}$	100	200	400	600	800	1000	V				
Maximum Average Forward Rectified Current	Iaximum Average Forward Rectified Current I <sub>F(AV)</sub> 10											
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	I <sub>FSM</sub> 180										
Max Instantaneous Forward Voltage at 10 A DC	V <sub>F</sub>	1.1										
Maximum DC Reverse Current T <sub>a</sub> = 25°C at Rated DC Reverse Voltage T <sub>a</sub> =125°C	I <sub>R</sub>	I <sub>R</sub> 5 500										
Typical Junction Capacitance (1)	ical Junction Capacitance (1) C <sub>j</sub> 150											
Typical Thermal Resistance <sup>(2)</sup>	$R_{ extsf{ heta}JC}$	R <sub>ejc</sub> 35										
Operating Junction Temperature Range	Tj	-55 ~ +150										
Storage Temperature Range	orage 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

l	JNIT	A	В	b	b1	С	D	E	F	G	G H		L1	М	Ν
mn	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	0.8	TYPICAL	TYPICAL	
mi	max	264	217	31	35	98	248	24	71	90	90 22 169 47	47	71	51	
mi	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

ι	JNI	Т	А	В	b	С	D	Е	F	G	Н	L	L1	L2	L3	S	М	N	J	К	Т
		nax	6.7	5.5	0.8	2.5	6.3	0.6	1.8	2.29	0.55	3.1	1.2	-			1.8 TYPICAL	1.3 TYPICAL	3.16 ref.	1.80	4.83
m		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.
m		nax	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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