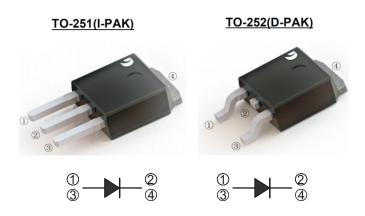
SF1001 THRU SF1006

SUPER FAST GLASS PASSIVATED RECTIFIERS

Reverse Voltage – 100 to 600 V Forward Current – 10 A

FEATURES

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



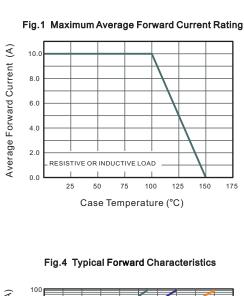
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

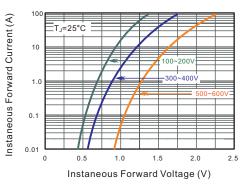
Ratings at 25°C ambient temperature unless otherwise specified

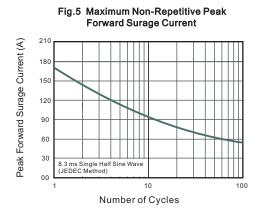
CHARACTERISTICS	TO-251	SF1001VS	SF1002VS	SF1003VS	SF1004VS	SF1005VS	SF1006VS	Units					
CHARACTERISTICS	TO-252	SF1001DS	SF1002DS	SF1003DS	SF1004DS	SF1005DS	SF1006DS	Omits					
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	300	400	500	600	V					
Maximum RMS voltage	V _{RMS}	70	140	210	210 280		420	V					
Maximum DC Blocking Voltage	V _{DC}	700	200	300	400	500	600	V					
Maximum Average Forward Rectified Current	I _{F(AV)}		10										
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	e Half Sine-wave Superimposed I _{FSM} 170												
Max Instantaneous Forward Voltage at 10 A DC	C V _F 0.95 1.30 1.70							V					
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a =125°C	I _R 1 300							uA					
Typical Junction Capacitance f=1MHz,4V DC	C _j	45											
Typical Thermal Resistance (1)	R _{θJA}	15											
Maximum Reverse Recovery Time (2)	t _{rr}	35											
Operating Junction Temperature Range	T _j -55 ~ +150							°C					
Storage Temperature Range	T_{stg}	-55 ~ +150											

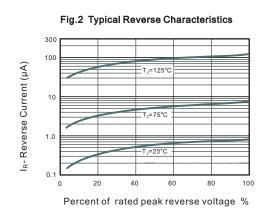
^(1) P.C.B. mounted with $\,$ 10cm x 10cm x 1mm copper pad areas.

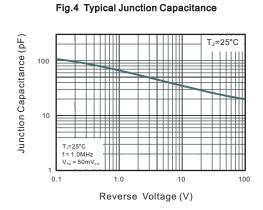
^(2) Measured with $\rm I_{\scriptscriptstyle F}$ = 0.5 A, $\rm I_{\scriptscriptstyle R}$ = 1 A, $\rm I_{\scriptscriptstyle rr}$ = 0.25 A.



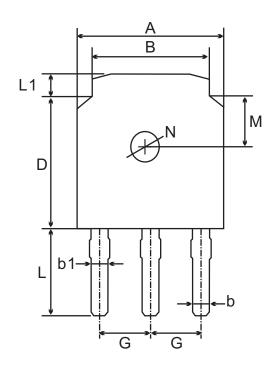


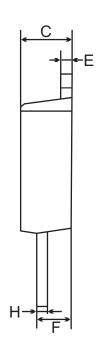






TO-251(D-PAK) Package Outline Dimensions





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
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
mii	min	248	201	12	30	83	232	16	51	TYPICAL	18	154	31	TYPICAL	TYPICAL

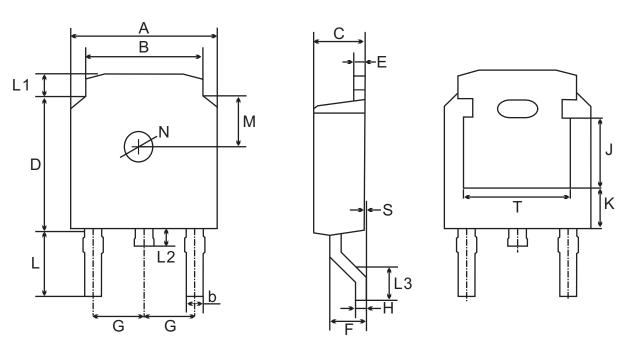
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TO-252(D-PAK) Package Outline Dimensions



TO-252(D-PAK) mechanical data

UN	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	1.0		3.16 ref.	1.80	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.	ref.
mil	max	264	217	31	98	248	24	71	90	22	122	47	39	69	4	71	51	124	71	190
11111	min	248	201	12	83	232	16	51	TYPICAL	18	106	31	24	55	0	TYPICAL	TYPICAL	ref.	ref.	ref.

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