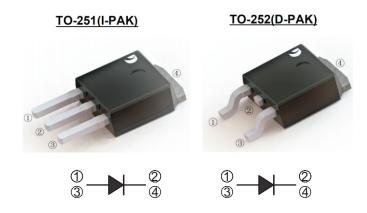
SF501 THRU SF506

SUPER FAST GLASS PASSIVATED RECTIFIERS Reverse Voltage – 100 to 600 V Forward Current – 5.0 A

FEATURES

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



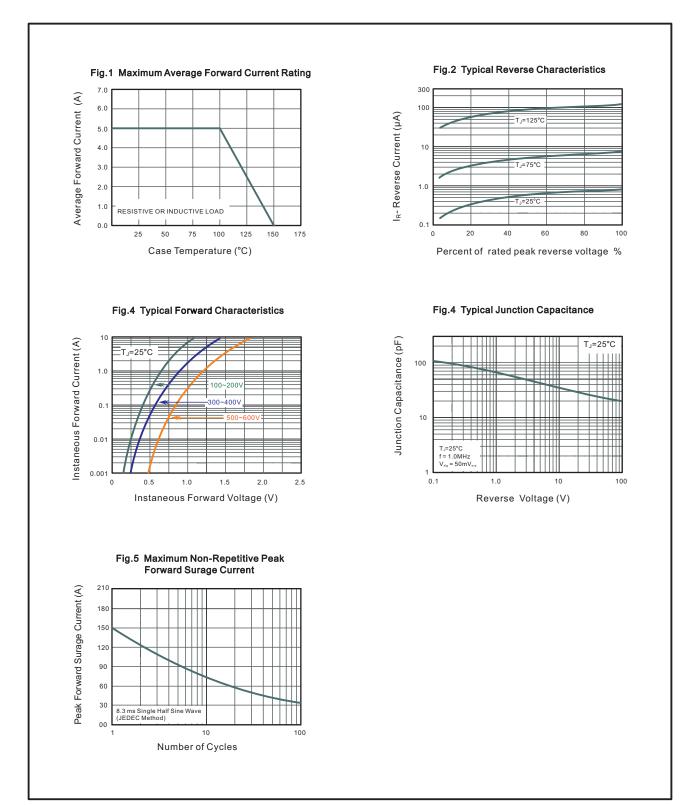
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

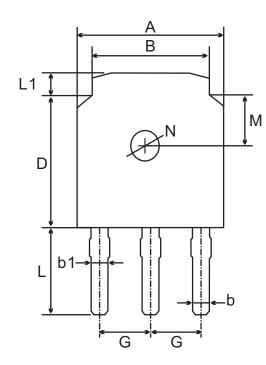
CHARACTERISTICS	TO-251	SF501VS	SF502VS	SF503VS	SF504VS	SF505VS	SF506VS	Units				
CHARACTERISTICS	TO-252	SF501DS	SF502DS	SF503DS	SF504DS	SF505DS	SF506DS	Ollits				
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	300	400	500	600	V				
Maximum RMS voltage	V _{RMS}	70	140	210	280	350	420	V				
Maximum DC Blocking Voltage	V _{DC}	100	200	300	400	500	600	V				
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0										
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150										
Max Instantaneous Forward Voltage at 5 A DC	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										
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	Tj	-55 ~ +150										
Storage Temperature Range	ge Temperature Range T_{stg} -55 ~ +150											

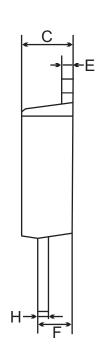
^(1) P.C.B. mounted with $\,$ 10cm x 10cm x 1mm copper pad areas.

^(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	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
	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

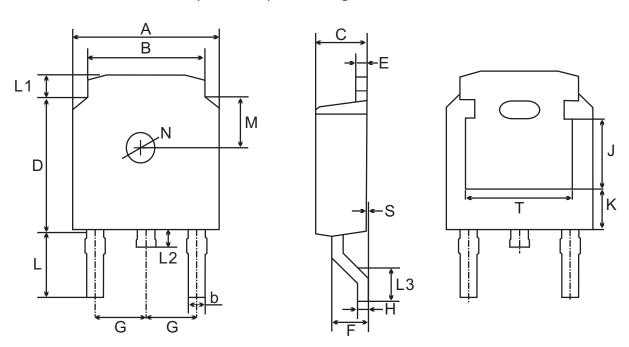
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TO-252(D-PAK) Package Outline Dimensions



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.		4.83
mm	min	6.3	5.1	0.3	2.1	5.9	0.4	1.3	3 TYPICAL	0.45	2.7	0.8	0.6	1.40	0.0					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		TYPICAL	18	106	31	24	55	0	TYPICAL	TYPICAL	ref.	ref.	ref.	

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