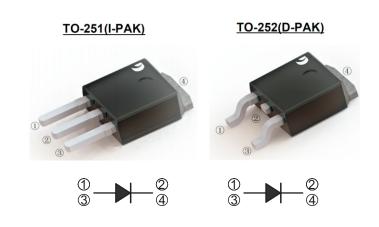


Surface Mount Super fast Recovery Rectifier Reverse Voltage – 800 V Forward Current – 5.0 A

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

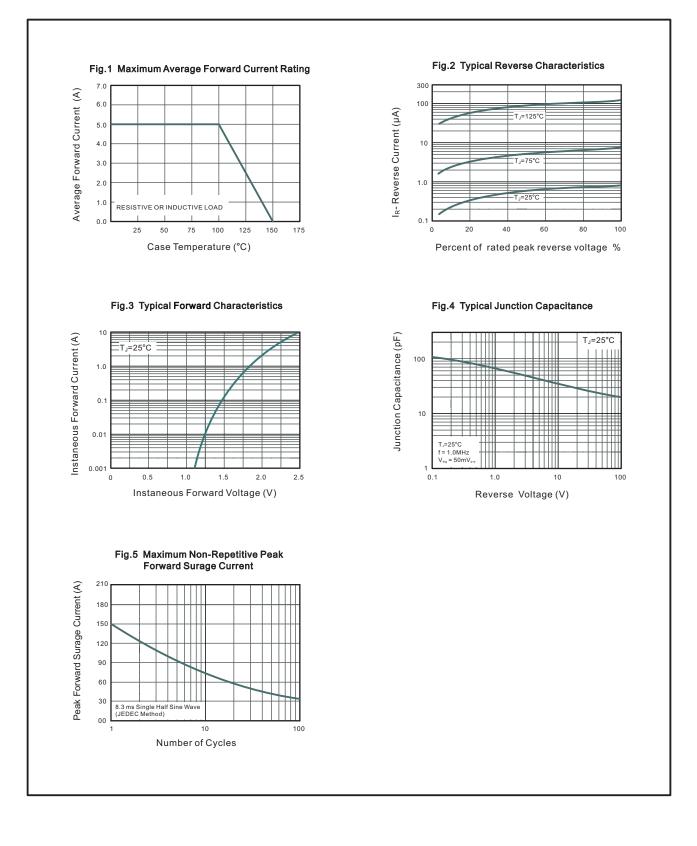
Ratings at 25°C ambient temperature unless otherwise specified

CHARACTERISTICS	TO-251	SF508VS						
CHARACTERISTICS	TO-252	SF508DS	Units					
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	800	V					
Maximum RMS voltage	V _{RMS}	560	V					
Maximum DC Blocking Voltage	V _{DC}	800	V					
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0	A					
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150	А					
Max Instantaneous Forward Voltage at 5 A	V _F	2.30	V					
Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Reverse Voltage $T_a = 125^{\circ}C$	I _R	1 300	uA					
Typical Junction Capacitance f=1MHz,4V DC	Cj	45	pF					
Typical Thermal Resistance ⁽¹⁾	R _{0JA}	15	°C/W					
Maximum Reverse Recovery Time ⁽²⁾	t _{rr}	35	ns					
Operating Junction Temperature Range	Tj	-55 ~ +150	°C					
Storage Temperature Range	T _{stg}	-55 ~ +150	°C					

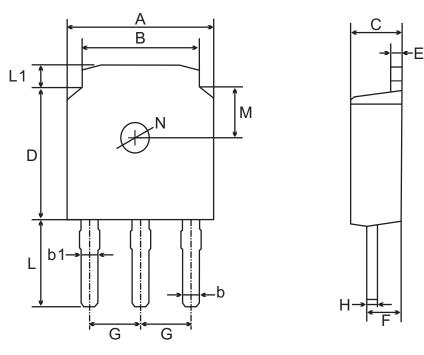
(1) P.C.B. mounted with 10cm x 10cm x 1mm copper pad areas.

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

SF508



TO-251(I-PAK) Package Outline Dimensions



TO-251(I-PAK) mechanical data

	UN	IIT	А	В	b	b1	С	D	Е	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	
		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	TYPICAL 18 154 31 TYPICA	TYPICAL	TYPICAL			

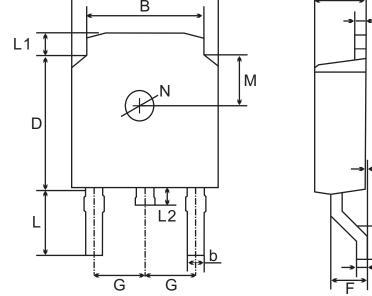
Important Notice and Disclaimer

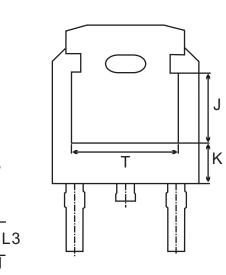
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$\frac{TO-252(D-PAK) Package Outline Dimensions}{A}$





TO-252(D-PAK) mechanical data

10	TIV	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	1.8	2.29 TYPICAL	0.55				1.75		1.8 TYPICAL	1.3 TYPICAL	3.16 ref.	1.80 ref.	4.83 ref.
	min	6.3	5.1	0.3	2.1	5.9	0.4	1.3		0.45	2.7	0.8	0.6	1.40	0.0					
mil	max	264	217	31	98	248	24	71	90 TYPICAL	22	122	47	39	69	4	71 TYPICAL	51 TYPICAL	124 ref.		190 ref.
mil	min	248	201	12	83	232	16	51		18	106	31	24	55	0					

S

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