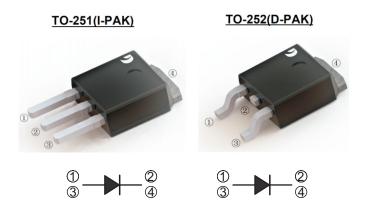
### SF801 THRU SF806

SUPER FAST GLASS PASSIVATED RECTIFIERS Reverse Voltage – 100 to 600 V Forward Current – 8.0 A

#### **FEATURES**

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



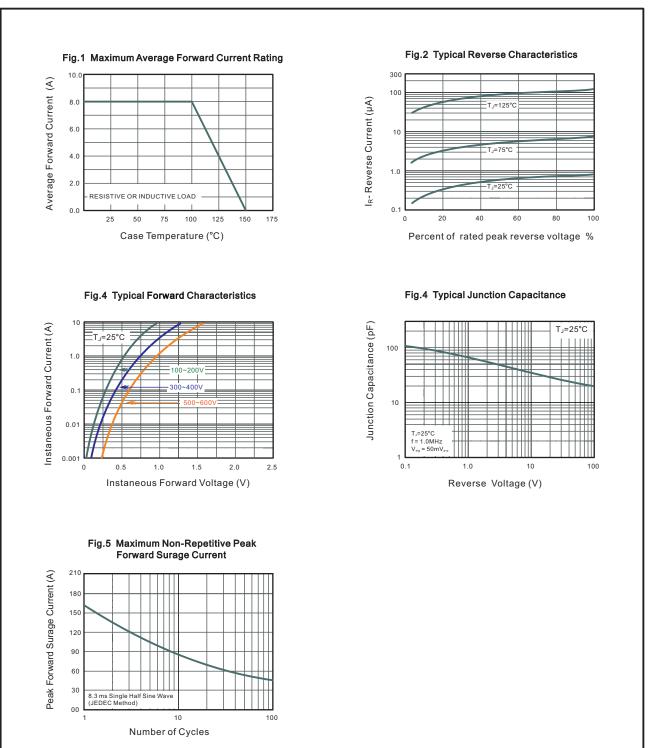
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

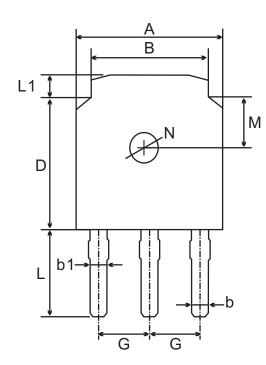
CHARACTERISTICS	TO-251	SF801VS	SF802VS	SF803VS	SF804VS	SF805VS	SF806VS				
CHARACTERISTICS	TO-252	SF801DS	SF802DS	SF803DS	SF804DS	SF805DS	SF806DS	Units			
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	200	300	400	500	600	V			
Maximum RMS voltage	V <sub>RMS</sub>	70	70 140		210 280		420	V			
Maximum DC Blocking Voltage	V <sub>DC</sub>	700	200	300	400	500	600	V			
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	8.0									
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	160									
Max Instantaneous Forward Voltage at 8 A DC	V <sub>F</sub>	70	V								
Maximum DC Reverse Current $T_a = 25$ °C at Rated DC Reverse Voltage $T_a = 125$ °C	I <sub>R</sub>	1 300									
Typical Junction Capacitance f=1MHz,4V DC	C <sub>j</sub> 45										
Typical Thermal Resistance (1)	R <sub>θJA</sub> 15										
Maximum Reverse Recovery Time (2)	t <sub>rr</sub> 35										
Operating Junction Temperature Range	Tj	-55 ~ +150									
Storage Temperature Range	re Range										

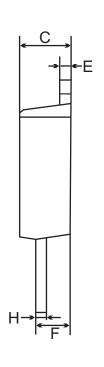
<sup>( 1 )</sup> P.C.B. mounted with  $\,$  10cm x 10cm x 1mm copper pad areas.

<sup>( 2 )</sup> 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

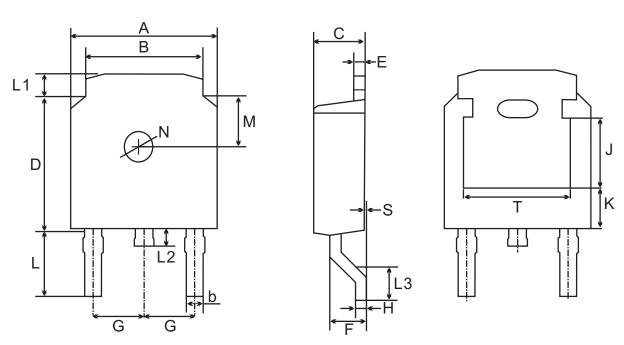
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## TO-252(D-PAK) Package Outline Dimensions



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.		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	16	51	TYPICAL	18	106	31	24	55	0	TYPICAL	TYPICAL	ref.	ref.	ref.

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