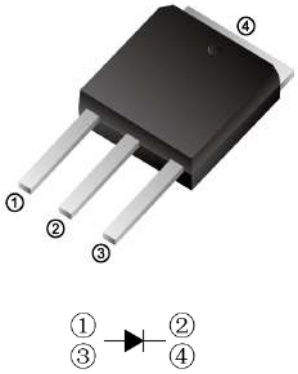
SF801 THRU SF806

Superfast Recovery Rectitiers

FEATURES

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

TO-251(I-PAK)



TO-252(D-PAK)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

CHARACTERISTICS	TO-251 / TO-252	SF801VS / SF801DS	SF802VS / SF802DS	SF803VS / SF803DS	SF804VS / SF804DS	SF805VS / SF805DS	SF806VS / SF806DS	UNIT
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	$I_{(AV)}$	8.0						A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	175						A
Maximum Forward Voltage at 8.0A DC	V_F	1.0		1.30		1.70		V
Maximum DC Reverse Current $_{J}$=25℃ **at Rated DC Blocking Voltage** $_{J}$=125℃	I_R	1.0 300						uA
Typical Junction Capacitance Per Element (Note1)	C_J	45						pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	15						℃/W
Maximum Reverse Recovery Time(Note3)	Trr	35						ns
Operating Temperature Range	T_J	-55 to +150						℃
Storage Temperature Range	T_{STG}	-55 to +150						℃

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Mounted on 10cm x 10cm x 1mm copper pad area
3.Reverse Recovery Test Conditions:IF=0.5A,IR=1A,Irr=0.25A

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

FIG.1 - FORWARD CURRENT DERATING CURVE

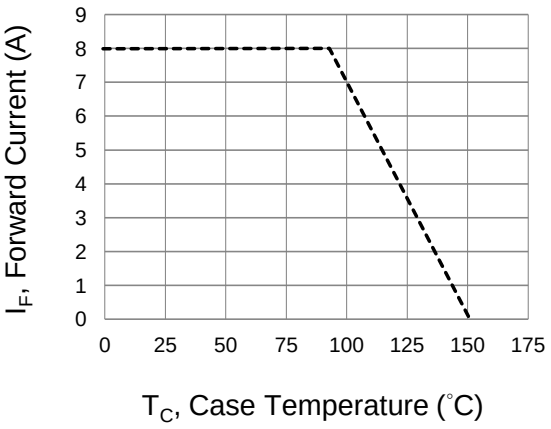


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

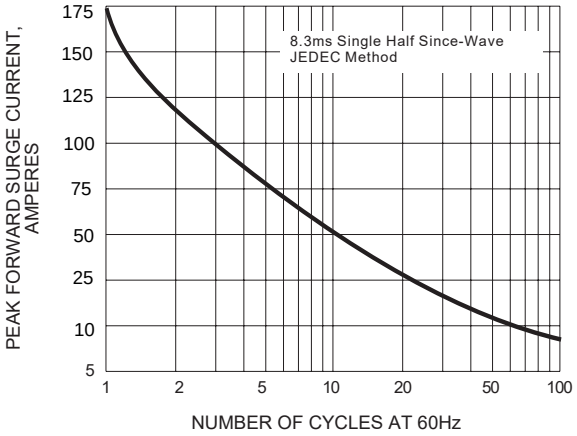


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

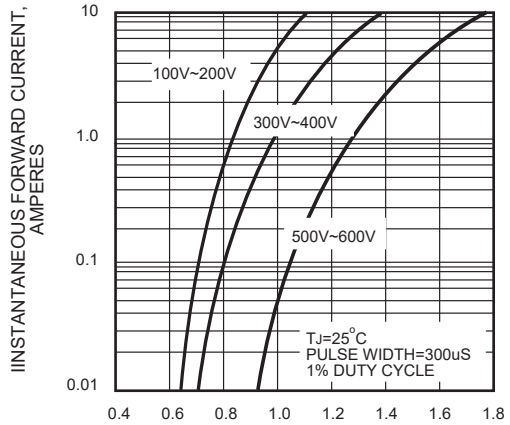


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

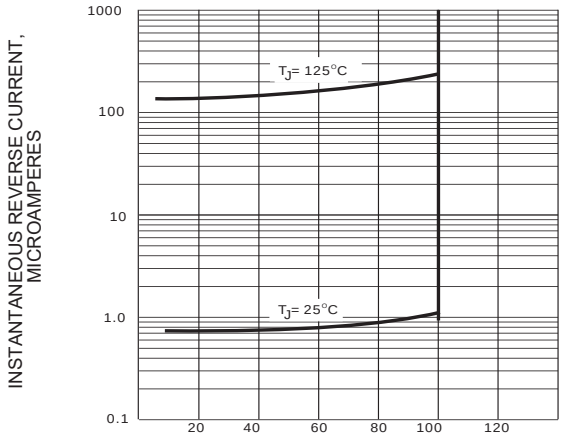
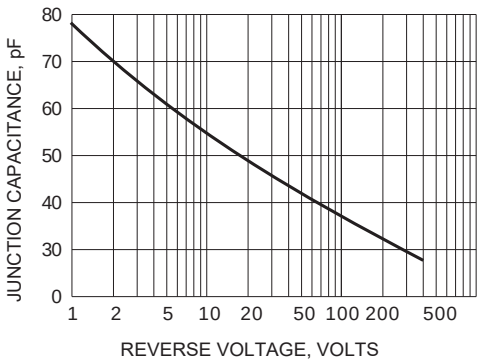


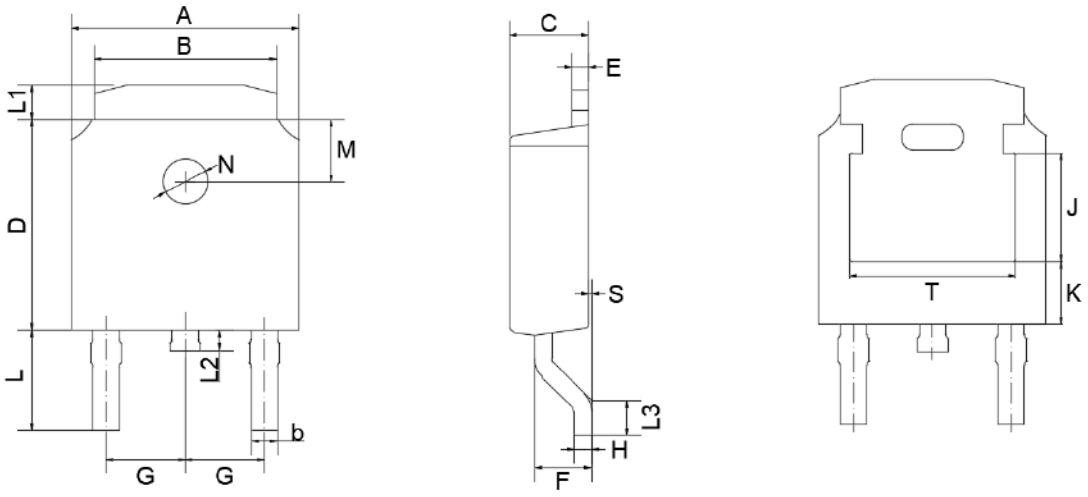
FIG.5 - TYPICAL JUNCTION CAPACITANCE



SF801 THRU SF806

Superfast Recovery Rectitiers

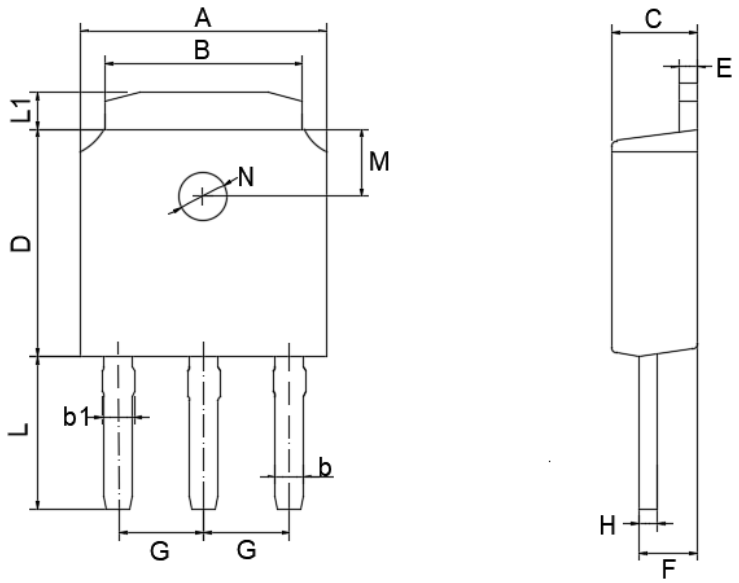
TO-252(D-PAK) Package Outline Dimensions



TO-252(D-PAK) mechanical data

UNIT		A	B	b	C	D	E	F	G	H	L	L1	L2	L3	M	N	J	K	T
mm	max	6.70	5.50	0.80	2.50	6.30	0.60	1.80	2.29 TYPICAL	0.55	3.10	1.20	0.80	1.60	1.8 TYPICAL	1.3 TYPICAL	3.16 ref.	1.80 ref.	4.83 ref.
	min	6.30	5.10	0.30	2.10	5.90	0.40	1.30		0.45	2.70	0.80	0.40	1.40					
mil	max	264	217	31	98	248	24	71	90 TYPICAL	22	122	47	31	63	71 TYPICAL	51 TYPICAL	124 ref.	71 ref.	190 ref.
	min	248	201	12	83	232	16	51		18	106	31	16	55					

TO-251(I-PAK) Package Outline Dimensions



TO-251(I-PAK) mechanical data

UNIT		A	B	b	b1	C	D	E	F	G	H	L	L1	M	N
mm	max	6.70	5.50	0.80	0.90	2.50	6.30	0.60	1.80	2.29 TYPICAL	0.55	4.30	1.20	1.8 TYPICAL	1.3 TYPICAL
	min	6.30	5.10	0.30	0.76	2.10	5.90	0.40	1.30		0.45	3.90	0.80		
mil	max	264	217	31	35	98	248	24	71	90 TYPICAL	22	169	47	71 TYPICAL	51 TYPICAL
	min	248	201	12	30	83	232	16	51		18	154	31		

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