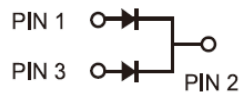


TO-220F



FEATURES

- High speed switching capability
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- High reliability
- For use in low voltage, high frequency inverters

APPLICATIONS

Fast recovery diode, mainly used for rectification, used in high-power equipment, The express and ultrafast recovery diodes are suitable for high frequency and ultra high frequency circuits, respectively

MECHANICAL DATA

- **Case:** Molded plastic
- **Polarity:** As marked
- **Mounting Position:** Any
- **Molded Plastic:** UL Flammability Classification Rating 94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Solder bath temperature 260°C maximum, 10s per JESD 22-B106

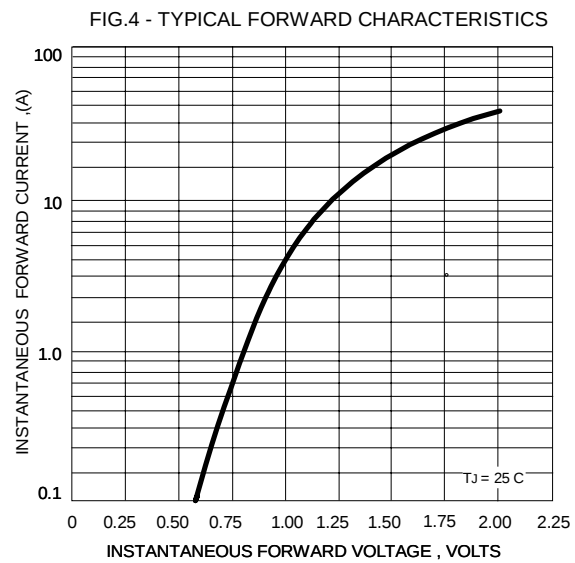
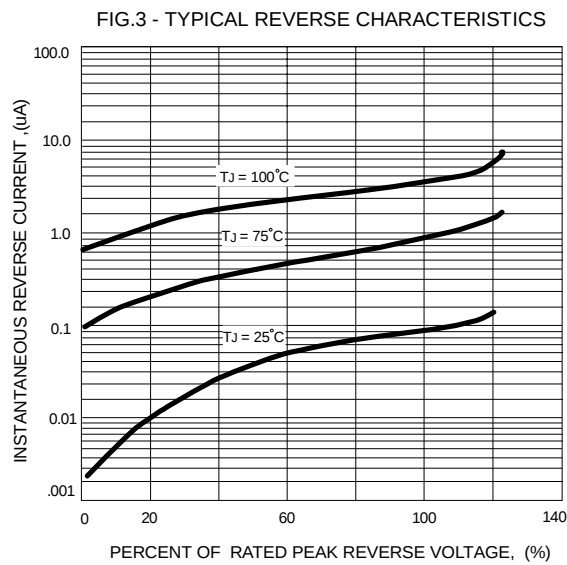
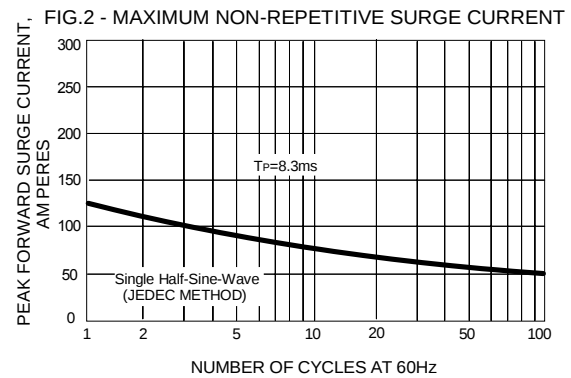
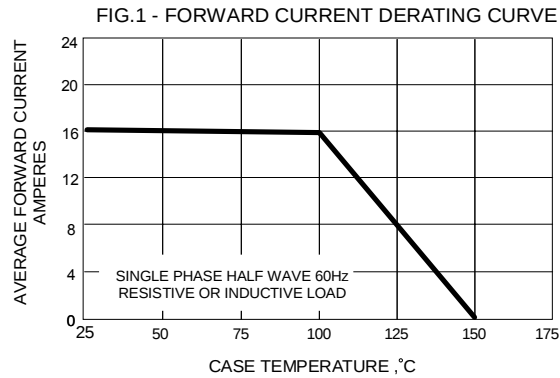
Maximum Ratings (Per Leg) at $T_a=25^{\circ}\text{C}$ unless otherwise specified

Rating	Symbol	SF1640FCT	Unit
Maximum Repetitive Reverse Voltage	VRRM	400	V
DC Blocking Voltage	VDC	400	V
Maximum Average Forward Current $T_A=100^{\circ}\text{C}$	IAV	16	A
Peak Forward Surge Current ,8.3ms single half sine-wave superimposed on rated load(JEDEC method)	IFSM	125	A
Maximum Forward Voltage at 8A,per element	VF	1.30	V
Maximum DC Reverse Current at $T_A=25^{\circ}\text{C}$ Rated DC Blocking Voltage $T_A=100^{\circ}\text{C}$	IR	5 100	μA
Maximum Reverse Recovery Time (Note 1)	TRR	35	ns
Maximum Thermal Resistance(Note 2)	R θ -JC	6.5	$^{\circ}\text{C}/\text{W}$
Operating Junction and Storage Temperature Range	TJ,TSTG	-55 to +150	$^{\circ}\text{C}$

NOTES:

1. Reverse Recovery Test Conditions: $I_F=.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=.25\text{A}$.
2. Thermal resistance from junction to case.

RATINGS AND CHARACTERISTIC CURVES



Package Outline Dimensions millimeters

TO-220F

