星合电子
XINGHE ELECTRONICS

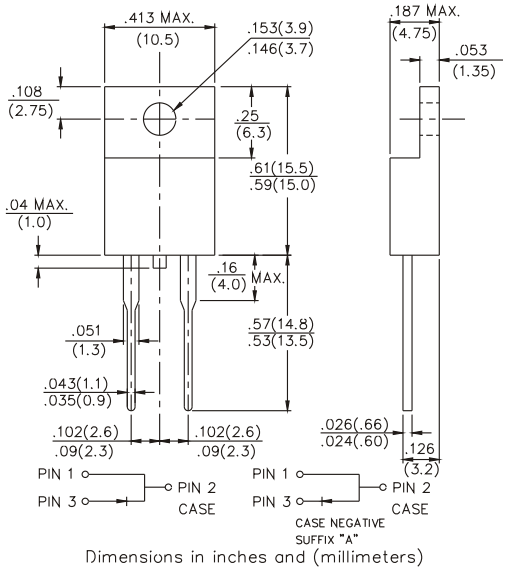
SF1001 thru SF1007

VOLTAGE - 50 TO 600 VOLTS CURRENT - 10 AMPERES

FEATURES

- Low forward voltage drop
- High Current Capability
- High reliability
- High surge Current Capability
- Good for switching mode application
- High temperature soldering：260°C/10seconds at terminals
- Pb free product are available：99% Sn above can meet RoHS
- environment substance directive request

TO-220AC



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case：TO220AC Molded plastic
Epoxy ：UL 94V-0 rate flame retardant
Lead：Lead solderable per
MIL-STD-202, Method 208 guranteed
Polarity：As Marked
Mounting Position：Any
Weight：2.24gram

MAXIMUM RATIXGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60Hz, resistive or inductive load
For capacitive load, derate current by 20%

PARAMETER	SF1001	SF1002	SF1003	SF1004	SF1005	SF1006	SF1007	UNITS
Maximum Repetitive Peak Reverse Voltage	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	35	70	105	140	210	320	420	Volts
Maximum DC Blocking Voltage	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current .375″ (9.5mm) Lead Length at T_C=100°C	10							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	150							Amps
Maximum Instandeous Forward Voltage at 10A	0.95				1.3		1.7	Volts
Maximum DC Reverse Current T_A=25°C at Rated DC Blocking Voltage T_A=100°C	10 500							μA
Maximum Reverse Recovery Time (Note 1)	35				50			nS
Typical Junction Capacitance (Note 2)	50							pF
Operating and Storage Temperature Range T_J,T_{STG}	-55 to +150							°C

NOTES：
1. Reverse Recovery Time test condition I_F=0.5A , I_R=1.0A , I_{RR}=0.25A
2. Measured at 1.0MHz and applied reverse Voltage of 4.0V D.C

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RATINGS AND CHARACTERISTIC CURVES SF1001 THRU SF1007

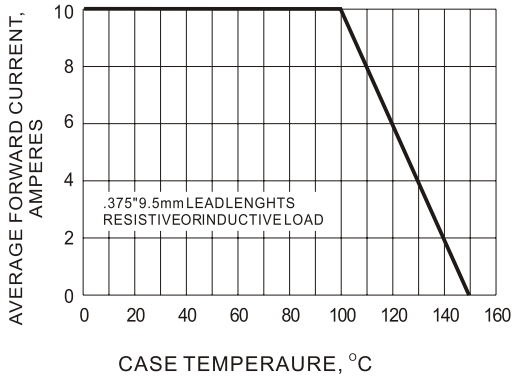

Fig.1- FORWARD CURRENT DERATING CURVE

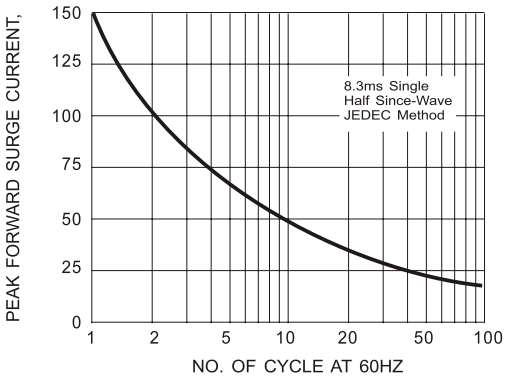

Fig.4- TMAXIMUM NON - REPETITIVE SURGE CURRENT

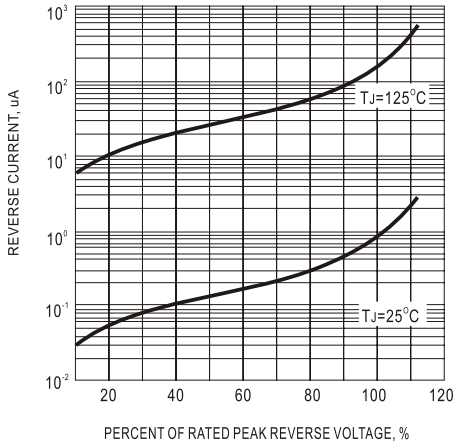

Fig.3- TYPICAL REVERSE CHARACTERISTIC

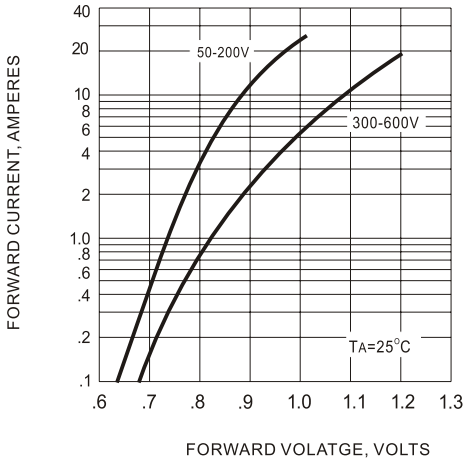

Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

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