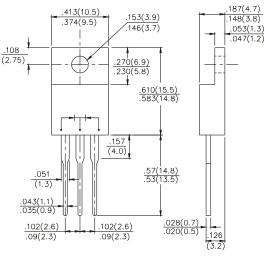
# SF1001CT thru SF1007CT

## SUPERFAST RECOVERY RECTIFIER

#### VOLTAGE - 50 TO 600 VOLTS CURRENT - 10 AMPERES

#### TO-220AB



Dimensions in inches and (millimeters)

**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



Case : TO220AB 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	SF1001CT	SF1002CT	SF1003CT	SF1004CT	SF1005CT	SF1006CT	SF1007CT	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 $Tc=100^{\circ}C$	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 5.0A	0.95				1	.3	1.7	Volts
Maximum DC Reverse Current T <sub>A</sub> =25°C at Rated DC Blocking Voltage T <sub>A</sub> =100°C	10 500							μA
Maximum Reverse Recovery Time (Note 1)	35					50		
Typical Junction Capacitance (Note 2)	50							pF
Operating and Storage Temperature Range TJ,TSTG	-55 to +150							°C

NOTES :

1. Reverse Recovery Time test condition  $I_{\text{F}}{=}0.5\text{A}$  ,  $I_{\text{R}}{=}1.0\text{A}$  ,  $I_{\text{RR}}{=}0.25\text{A}$ 

2. Measured at 1.0MHz and applied reverse Voltage of 4.0V D.C



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#### RATINGS AND CHARACTERISTIC CURVES SF1001CT THRU SF1007CT

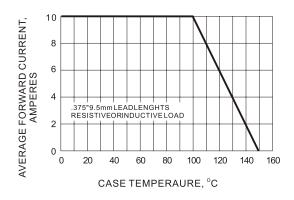


Fig.1- FORWARD CURRENT DERATING CURVE

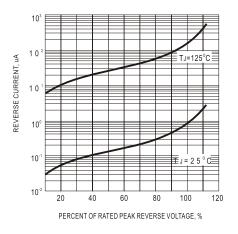


Fig.3- TYPICAL REVERSE CHARACTERISTIC

