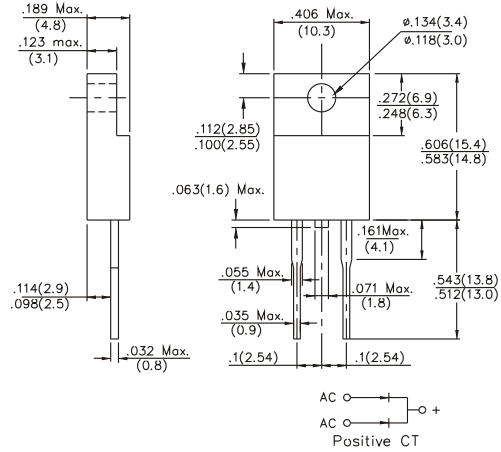
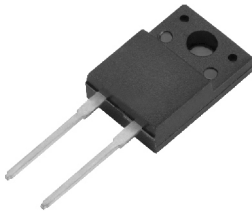


# SF1001F thru SF1007F

## SUPERFAST RECOVERY RECTIFIER

VOLTAGE - 50 TO 600 VOLTS CURRENT - 10 AMPERES

ITO-220AC



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

### MECHANICAL DATA

Case : ITO220AC 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 RATINGS 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	SF1001F	SF1002F	SF1003F	SF1004F	SF1005F	SF1006F	SF1007F	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 <sub>c</sub> =100°C	10							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	150							Amps
Maximum Instantaneous Forward Voltage at 10A	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			nS
Typical Junction Capacitance (Note 2)	50							pF
Operating and Storage Temperature Range T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

NOTES :

1. Reverse Recovery Time test condition I<sub>F</sub>=0.5A , I<sub>R</sub>=1.0A , I<sub>RR</sub>=0.25A
2. Measured at 1.0MHz and applied reverse Voltage of 4.0V D.C

# SF1001F thru SF1007F

## SUPERFAST RECOVERY RECTIFIER

### RATINGS AND CHARACTERISTIC CURVES SF1001F THRU SF1007F

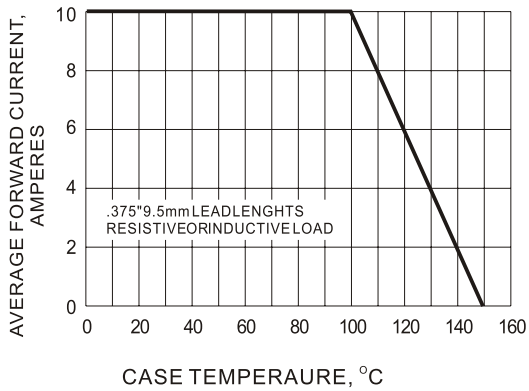


Fig.1- FORWARD CURRENT DERATING CURVE

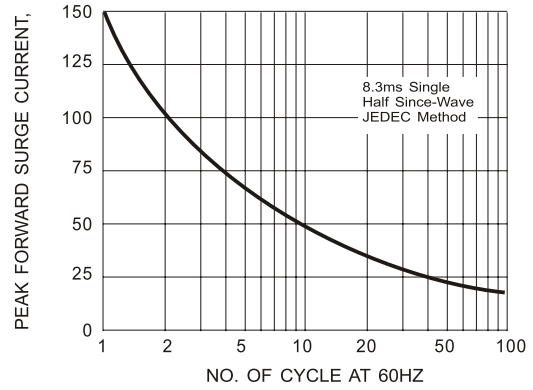


Fig.2- TMAXIMUM NON - REPETITIVE SURGE CURRENT

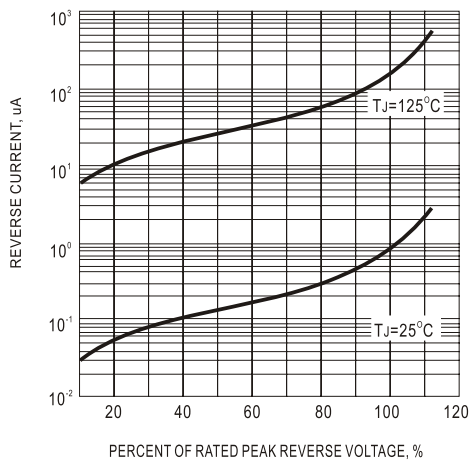


Fig.3- TYPICAL REVERSE CHARACTERISTIC

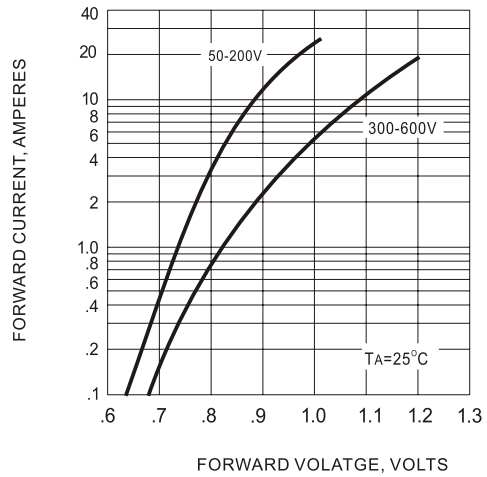


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC