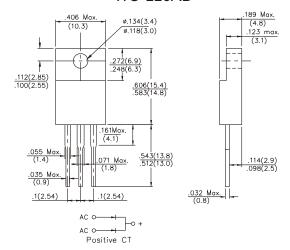
SF1001FCT thru SF1007FCT

SUPERFAST RECOVERY RECTIFIER

VOLTAGE - 50 TO 600 VOLTS CURRENT - 10 AMPERES



ITO-220AB



Dimensions in inches and (millimeters)

FEATURES

- Low forward voltage drop
- High Current Capability
- · High reliability
- · High surge Current Capability
- $\bullet \ \text{Good for switching mode application}\\$
- 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: ITO220AB 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	SF1001FCT	SF1002FCT	SF1003FCT	SF1004FCT	SF1005FCT	SF1006FCT	SF1007FCT	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 $^{\prime\prime}$ (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 _A =25°C at Rated DC Blocking Voltage T _A =100°C	10 500							μΑ
Maximum Reverse Recovery Time (Note 1)	35				50			nS
Typical Junction Capacitance (Note 2)	50							рF
Operating and Storage Temperature Range TJ,TSTG	-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



SF1001FCT thru SF1007FCT

SUPERFAST RECOVERY RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SF1001FCT THRU SF1007FCT

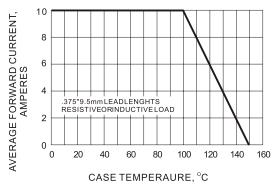
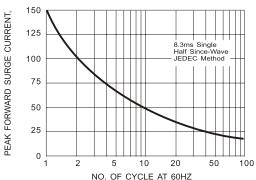


Fig.1- FORWARD CURRENT DERATING CURVE



NO. OF CYCLE AT 60HZ
Fig.2- TMAXIMUM NON - REPETITIVE SURGE
CURRENT

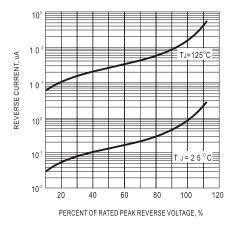


Fig.3- TYPICAL REVERSE CHARACTERISTIC

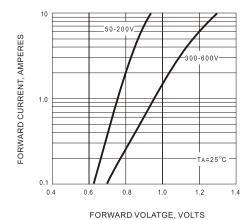


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

