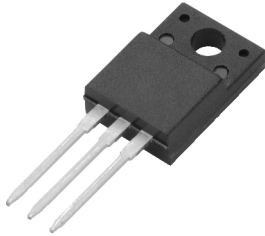
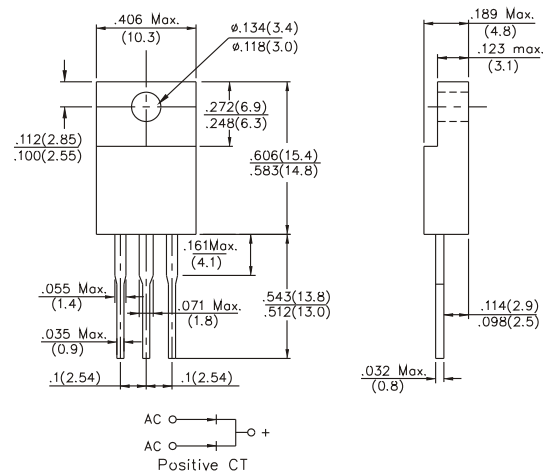


SF1001FCT thru SF1007FCT

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
- 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 guaranteed
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	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" (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 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							μ A
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

SF1001FCT thru SF1007FCT

SUPERFAST RECOVERY RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SF1001FCT THRU SF1007FCT

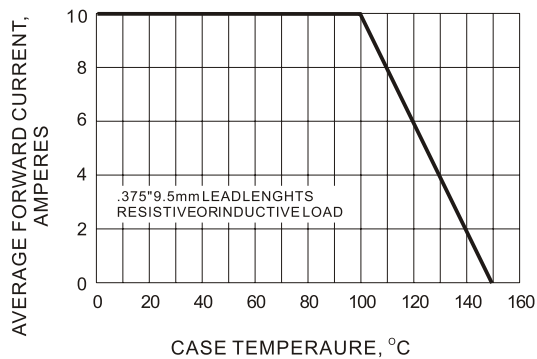


Fig.1- FORWARD CURRENT DERATING CURVE

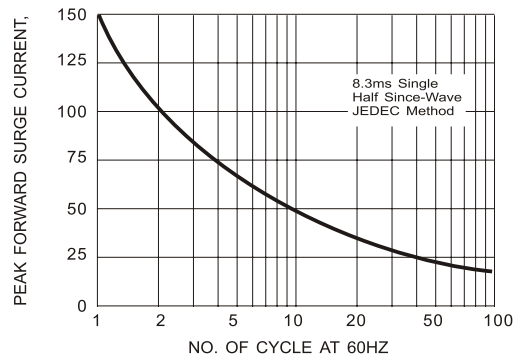


Fig.2- TMAXIMUM NON - REPETITIVE SURGE CURRENT

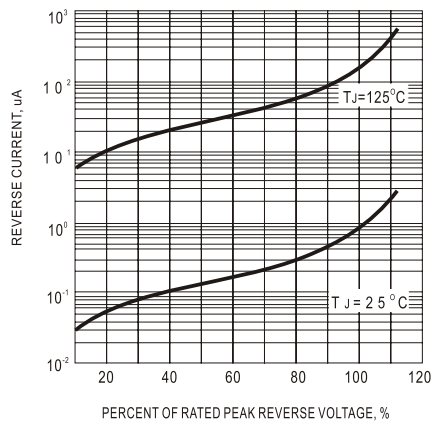


Fig.3- TYPICAL REVERSE CHARACTERISTIC

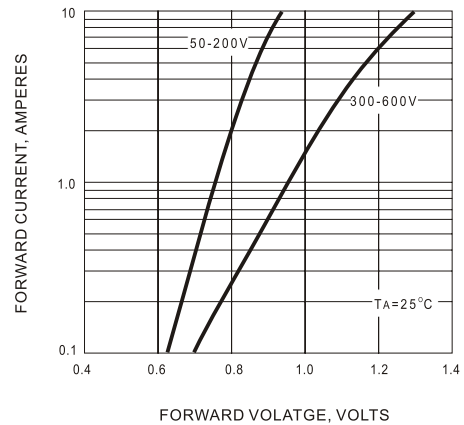


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC