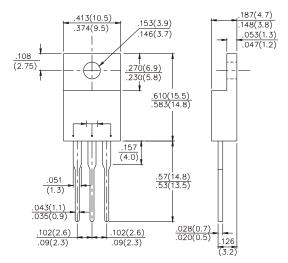
SF1001CT thru SF1007CT

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
- \bullet 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: 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%

SF1001CT	SF1002CT	SF1003CT	SF1004CT	SF1005CT	SF1006CT	SF1007CT	UNITS
50	100	150	200	300	400	600	Volts
35	70	105	140	210	320	420	Volts
50	100	150	200	300	400	600	Volts
10						Amps	
150						Amps	
0.95			1	.3	1.7	Volts	
10 500						μ Α	
35				50			nS
50						pF	
-55 to +150						°C	
	50 35	50 100 35 70 50 100	50 100 150 35 70 105 50 100 150 0.95	50 100 150 200 35 70 105 140 50 100 150 200 10 150 0.95 10 35 50	50 100 150 200 300 35 70 105 140 210 50 100 150 200 300 10 150 0.95 1 10 500 35 50	50 100 150 200 300 400 35 70 105 140 210 320 50 100 150 200 300 400 10 150 0.95 1.3 10 500 35 50	50 100 150 200 300 400 600 35 70 105 140 210 320 420 50 100 150 200 300 400 600 10 500 1.3 1.7 35 50 50

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



SF1001CT thru SF1007CT

SUPERFAST RECOVERY RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SF1001CT THRU SF1007CT

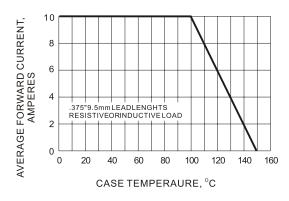


Fig.1- FORWARD CURRENT DERATING CURVE

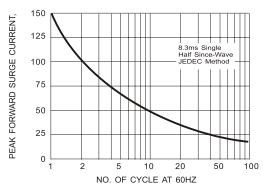


Fig.2- TMAXIMUM NON - REPETITIVE SURGE
CURRENT

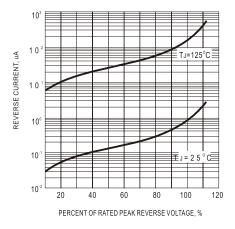


Fig.3- TYPICAL REVERSE CHARACTERISTIC

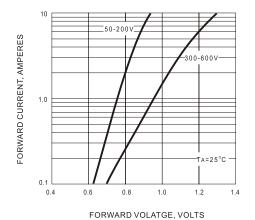


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

