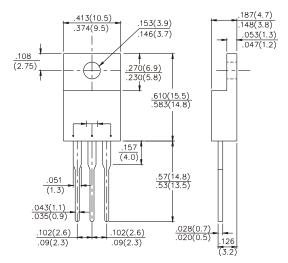
# SF1001CT thru SF1007CT

### 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

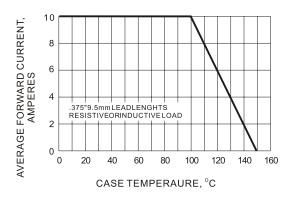


Fig.1- FORWARD CURRENT DERATING CURVE

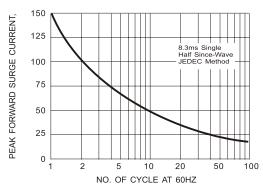


Fig.2- TMAXIMUM NON - REPETITIVE SURGE
CURRENT

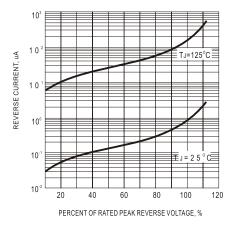


Fig.3- TYPICAL REVERSE CHARACTERISTIC

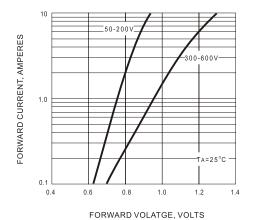


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

