

SF1010CT~SF1060CT

ULTRAFAST RECOVERY RECTIFIERS

VOLTAGE	100 to 600 Volts
CURRENT	10 Amperes

FEATURES

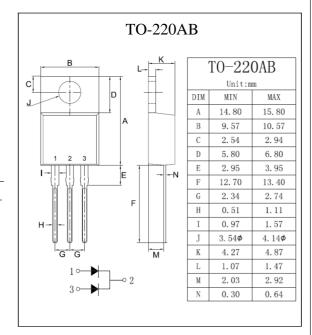
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low foward voltage, high current capability.
- High surge capability
- Ultra fast recovery time, high voltage.
- · Lead free in comply with EU RoHS.

MECHANICAL DATA

• Case: TO-220AB molded plastic

• Terminals: solder plated, solderable per MIL-STD-750, Method 2026

Polarity: As marked.Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SF1010CT	SF1020CT	SF1030CT	SF1040CT	SF1050CT	SF1060CT	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	300	400	500	600	٧
Maximum RMS Voltage	V _{RMS}	70	140	210	280	350	420	٧
Maximum DC Blocking Voltage	V _{DC}	100	200	300	400	500	600	٧
Maximum Average Forward Current at T _c = 100°C	I _{F(AV)}	10						А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	90						А
Maximum Forward Voltage at 5A	V _F	1 1.3			1.7		٧	
Maximum DC Reverse Current at Rated DC Blocking $T_J=25^{\circ}C$ Voltage $T_J=125^{\circ}C$	I _R	10 500						μА
Typical Junction Capacitance (Note 1)	C¹	170 130				30	pF	
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35						ns
Typical Thermal Resistance (Note 3)	R _{eJC}	3.5					°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150						°C

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1A, I_R =1A, I_R =0.25A.
- 3. Thermal resistance from Junction to case.



RATING AND CHARACTERISTIC CURVES

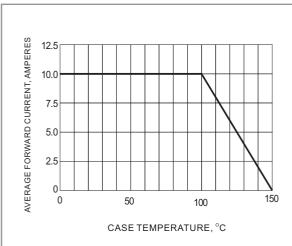
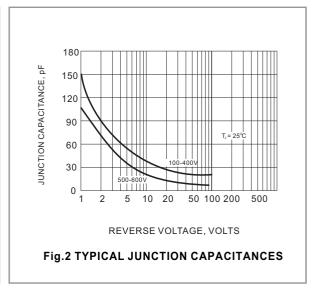
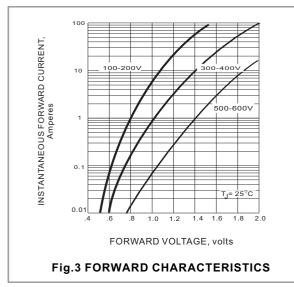
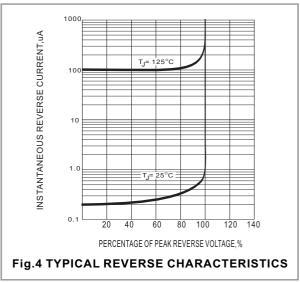
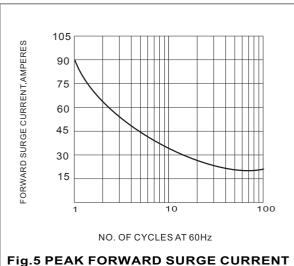


Fig.1 FORWARD CURRENT DERATING CURVE









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