

SF2010CT~SF2060CT

ULTRAFAST RECOVERY RECTIFIERS

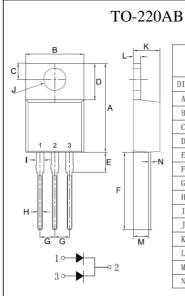
VOLTAGE	100 to 600 Volts
CURRENT	20 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- · Low forward 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



TO-220AB							
Unit:mm							
DIM	MIN MAX						
Α	14.80	15. 80					
В	9. 57	10. 57					
С	2.54	2. 94					
D	5.80	6.80					
Е	2.95	3. 95					
F	12.70	13. 40					
G	2.34	2.74					
Н	0.51	1.11					
Ι	0.97	1. 57					
J	3. 54 ø	4. 14 ø					
K	4. 27	4.87					
L	1.07	1.47					
M	2.03	2. 92					
N	0.30	0.64					

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		SF2010CT	SF2020CT	SF2030CT	SF2040CT	SF2050CT	SF2060CT	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	300	400	500	600	V
Maximum RMS Voltage		70	140	210	280	350	420	V
Maximum DC Blocking Voltage		100	200	300	400	500	600	V
Maximum Average Forward Current at T _c = 100°C	I _{F(AV)}	20					А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	110					А	
Maximum Forward Voltage at 10A	V _F	1		1.	1.3		1.7	
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	200				pF		
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35				ns		
Typical Thermal Resistance (Note 3)	R _{eJC}	3				°C /		
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150				°C		

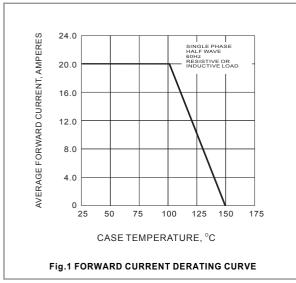
NOTES:

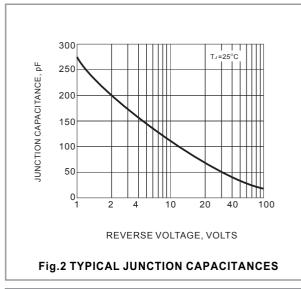
- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1A, I_R =1A, I_R =0.25A.
- 3. Thermal resistance from Junction to case.

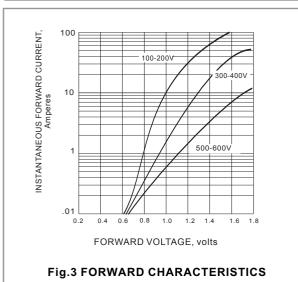


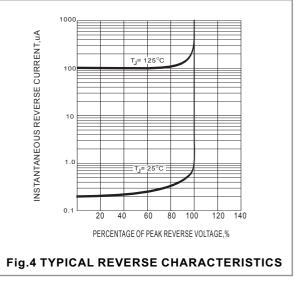


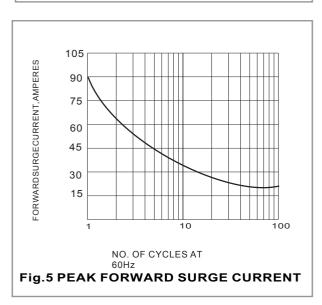
RATING AND CHARACTERISTIC CURVES













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