

MUR2010CT~MUR2060CT

100 to 600 Volts

20 Amperes

VOLTAGE

CURRENT

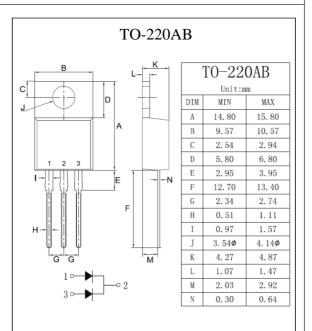
ULTRAFAST RECOVERY RECTIFIERS

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



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	SF2010CT	SF2020CT	SF2030CT	SF2040CT	SF2050CT	SF2060CT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	300	400	500	600	v
Maximum RMS Voltage	V _{RMS}	70	140	210	280	350	420	v
Maximum DC Blocking Voltage	V _{DC}	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}	90						А
Maximum Forward Voltage at 10A	V _F	1 1.3		. 3	1.7		v	
Maximum DC Reverse Current at Rated DC Blocking T_=25°C Voltage T_=125°C	I _R	10 500						μΑ
Typical Junction Capacitance (Note 1)	C	200						рF
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35						ns
Typical Thermal Resistance (Note 3)	R _{ejc}	3						°C / W
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-55 to +150						°C

NOTES:

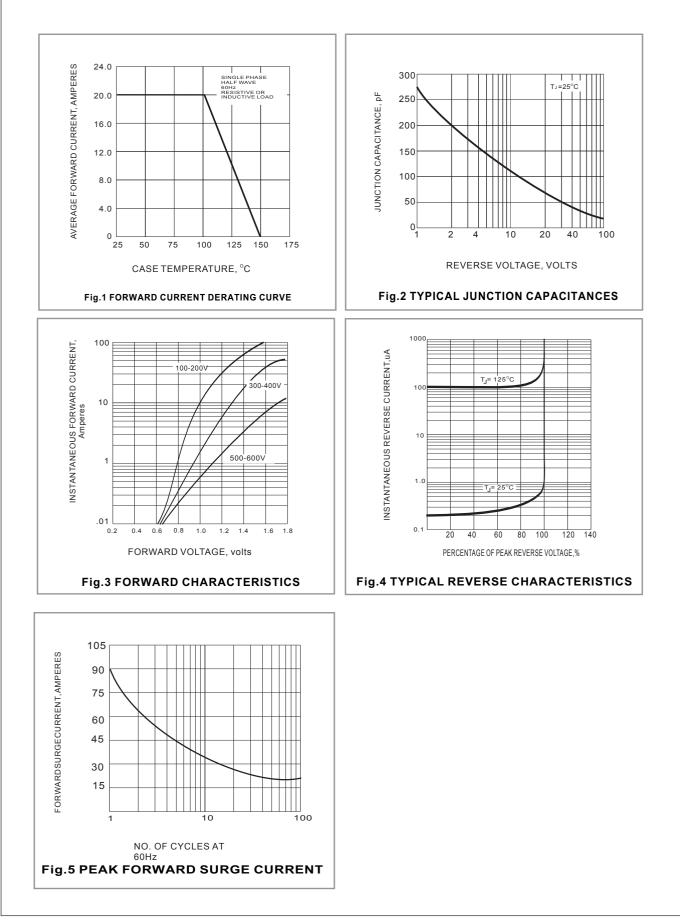
1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, Irr=0.25A.

3. Thermal resistance from Junction to case.



RATING AND CHARACTERISTIC CURVES







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