

MURF1010CT~MURF1060CT

ULTRAFAST RECOVERY RECTIFIERS

VOLTAGE 100 to 600 Volts
CURRENT 10 Amperes

FEATURES

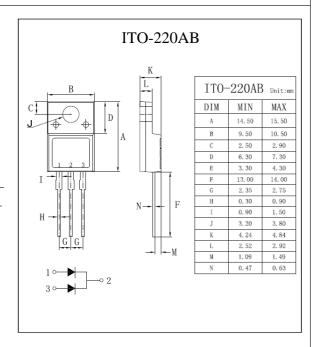
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low foward voltage, high current capability.
- High surge capability
- Ultra fast recovery time, high voltage.
- · Lead free in comply with EU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

MECHANICAL DATA

• Case: ITO-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	MURF 1010CT	MURF 1020CT	MURF 1030CT	MURF 1040CT	MURF 1050CT	MURF 1060CT	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)}	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		V	
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)	C		170		130		pF	
Maximum Reverse Recovery Time (Note 2)	t _{rr}		35					
Typical Thermal Resistance (Note 3)	R _{eJC}	3.5						°C /
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150						°C

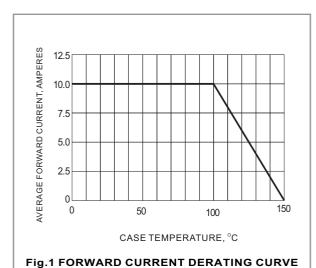
NOTES:

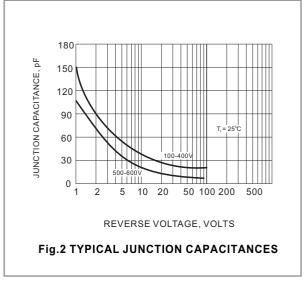
- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1A, I_R =1A, I_R =0.25A.
- 3. Thermal resistance from Junction to case.

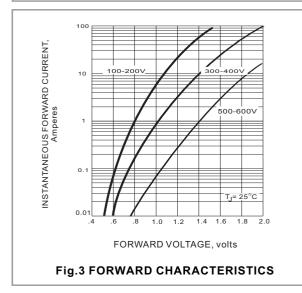


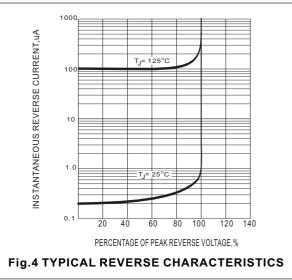
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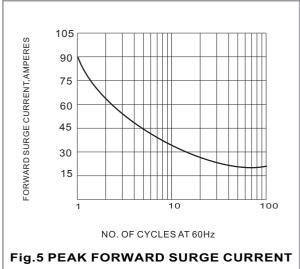
RATING AND CHARACTERISTIC CURVES











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