

MURT1060FCT

SUPERFAST RECOVERY RECTIFIERS

Voltage

600 V

Current

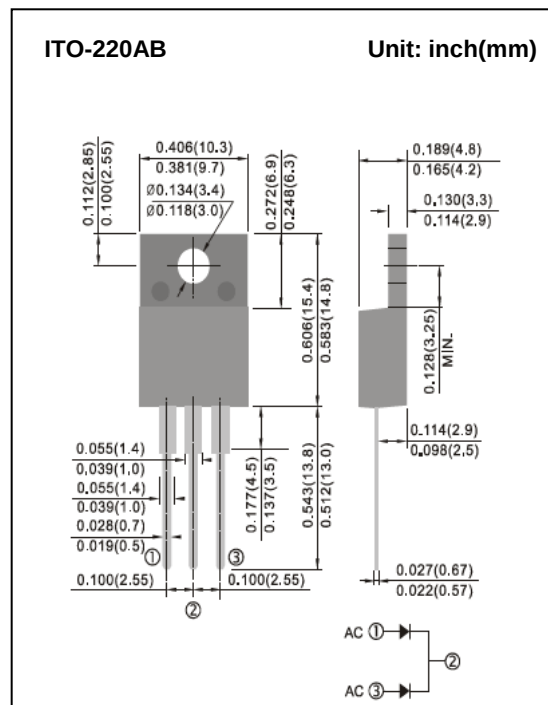
10 A

Features

- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- Hermetically sealed.
- Low leakage
- High surge capacity
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. .(Halogen Free)

Mechanical Data

- Case: Molded plastic, ITO-220AB
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.056 ounces, 1.6 grams



Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	600	V
Maximum rms voltage		V_{RMS}	420	V
Maximum dc blocking voltage		V_R	600	V
Maximum average forward current	per device	$I_{F(AV)}$	10	A
	per diode		5	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	95	A
Maximum forward voltage at 5A		V_F	1.7	V
Maximum dc reverse current at rated dc blocking voltage		I_R	1	μA
Typical Thermal Resistance per diode (Note 2)		$R_{\theta JC}$	6.5	$^{\circ}\text{C/W}$
Maximum reverse recovery time (Note 1)		T_{RR}	35	ns
Operating and storage temperature range		T_J, T_{STG}	-55 to +175	$^{\circ}\text{C}$

Note : 1. Reverse Recovery Test Conditions : $I_F=0.5\text{A}$, $I_R=-1\text{A}$, Recover to -0.25A

2. Device mounted on a infinite heatsink , then measured the center of the marking side.

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TYPICAL CHARACTERISTIC CURVES

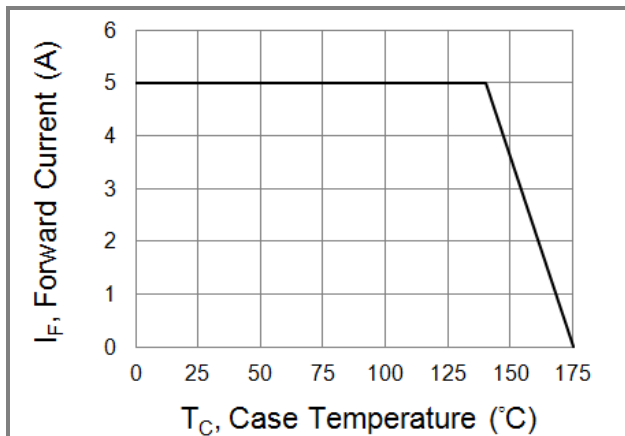


Fig.1 Forward Current Derating Curve

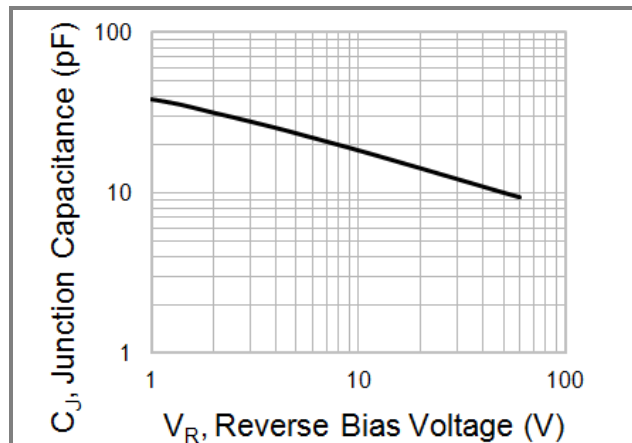


Fig.2 Typical Junction Capacitance

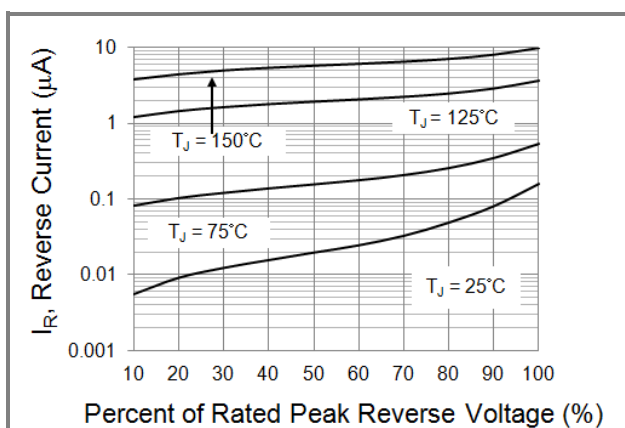


Fig.3 Typical Reverse Characteristics

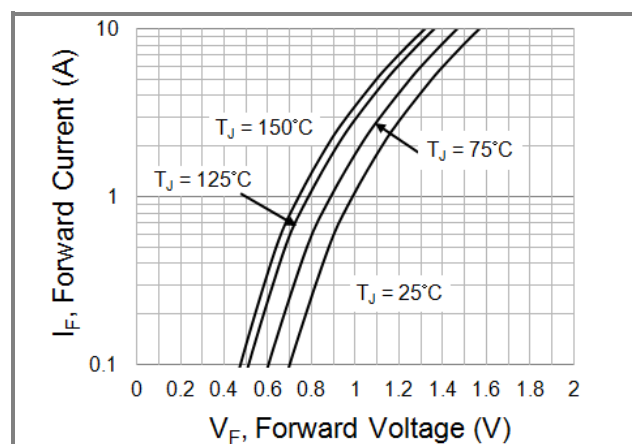


Fig.4 Typical Forward Characteristics

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
MURT1060FCT_T0_00001	ITO-220AB	50pcs / Tube	MURT1060FCT	Halogen free



MURT1060FCT

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