

# MURT1060FAT

## SUPERFAST RECOVERY RECTIFIERS

**Voltage**

**600 V**

**Current**

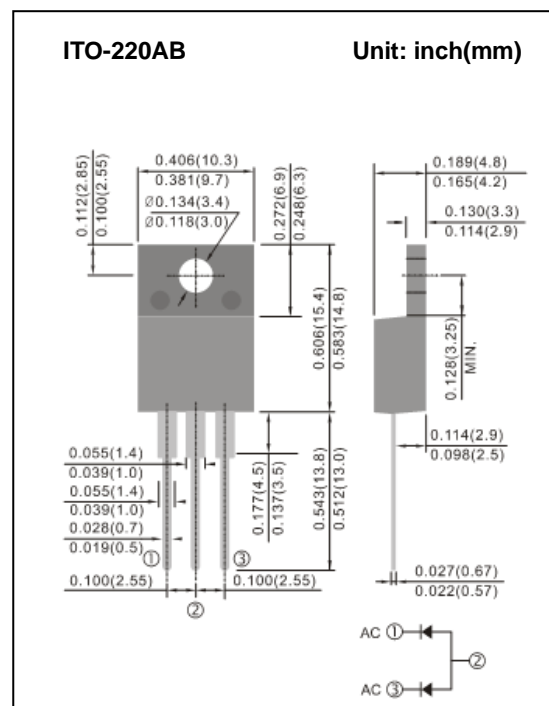
**10 A**

### 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	$\mu\text{A}$
Typical Thermal Resistance per diode (Note 2)		$R_{\theta JC}$	7.7	$^{\circ}\text{C/W}$
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  $-0.25\text{A}$

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

# MURT1060FAT

## TYPICAL CHARACTERISTIC CURVES

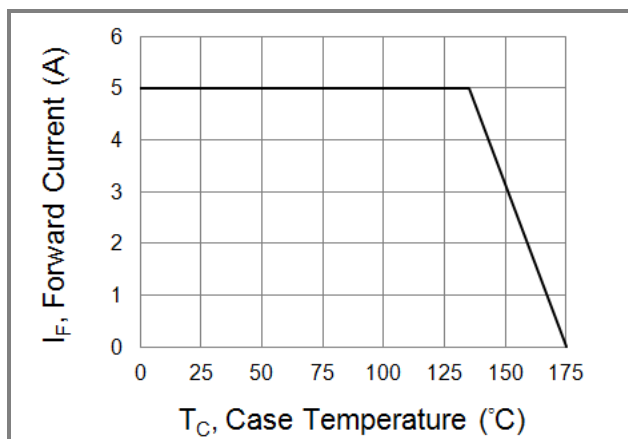


Fig.1 Forward Current Derating Curve

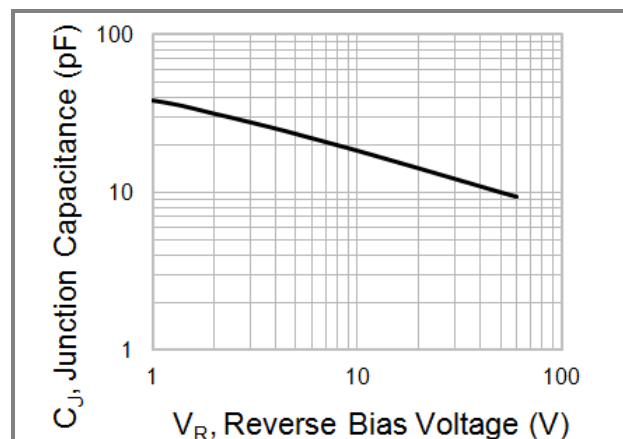


Fig.2 Typical Junction Capacitance

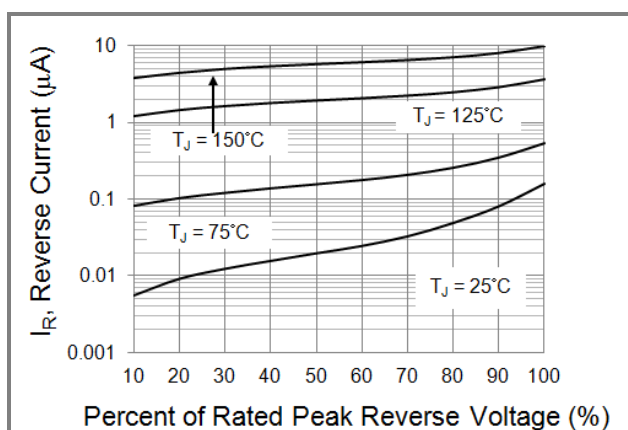


Fig.3 Typical Reverse Characteristics

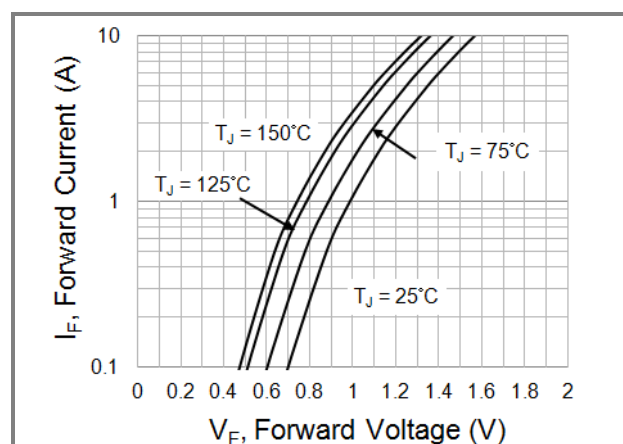


Fig.4 Typical Forward Characteristics

## Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
MURT1060FAT_T0_00001	ITO-220AB	50pcs / Tube	MURT1060FAT	Halogen free



## MURT1060FAT

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