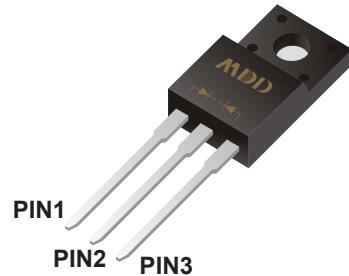


## Ultra-Fast Recovery Diodes

### Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C, 0.25"(6.35mm) from case for 10 seconds

[ITO-220AB](#)


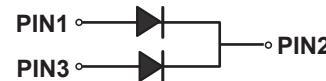
### Mechanical Data

**Case** : JEDEC ITO-220AB Molded plastic body

**Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity** : Polarity symbol marking on body

**Mounting Position** : Any

**Weight** : 0.080 ounce, 2.24 grams


### Maximum Ratings And Electrical Characteristics

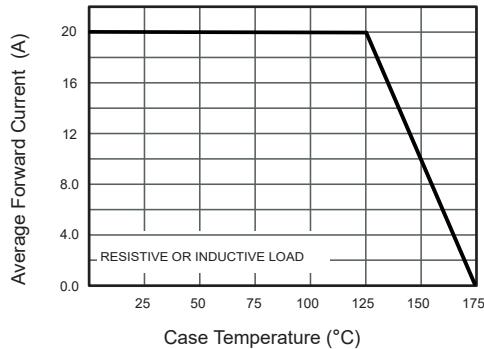
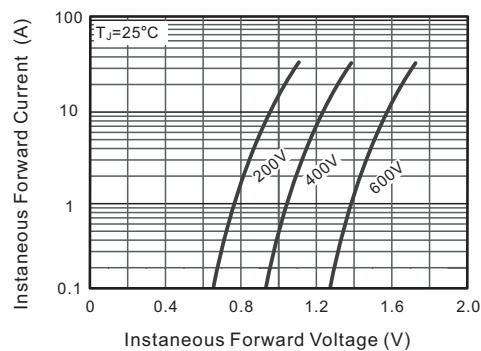
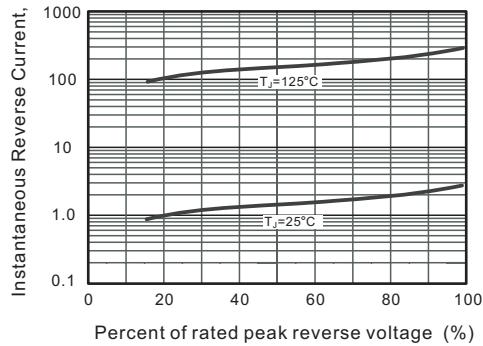
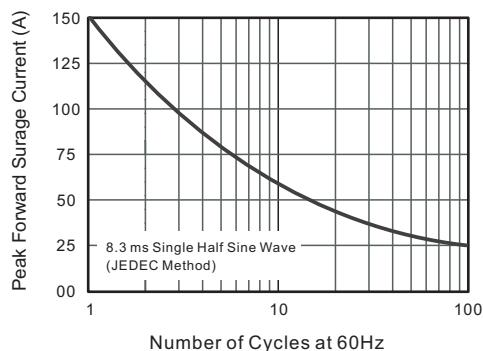
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MDD MURF2020DCT	MDD MURF2040DCT	MDD MURF2060DCT	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	200	400	600	V
Maximum RMS voltage	$V_{RMS}$	140	280	420	V
Maximum DC blocking voltage	$V_{DC}$	200	400	600	V
Maximum average forward rectified current at $T_C=110^\circ C$ per device per diode	$I_{(AV)}$		20.0 10.0		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$		150.0		A
Maximum instantaneous forward voltage per diode at 10.0A	$V_F$	1.0	1.3	1.6	V
Maximum DC reverse current at rated DC blocking voltage $T_A = 25^\circ C$ $T_A = 125^\circ C$	$I_R$		10 500		$\mu A$
Maximum reverse recovery time	$T_{rr}$		35		ns
Typical thermal resistance	$R_{qJC}$		4.0		$^\circ C/W$
Operating junction temperature range	$T_J$		-55 to +175		$^\circ C$
Storage temperature range	$T_{STG}$		-55 to +175		$^\circ C$

 Note:1.Reverse recovery time test condition:  $IF=0.5A$   $IR=1.0A$   $Irr=0.25A$

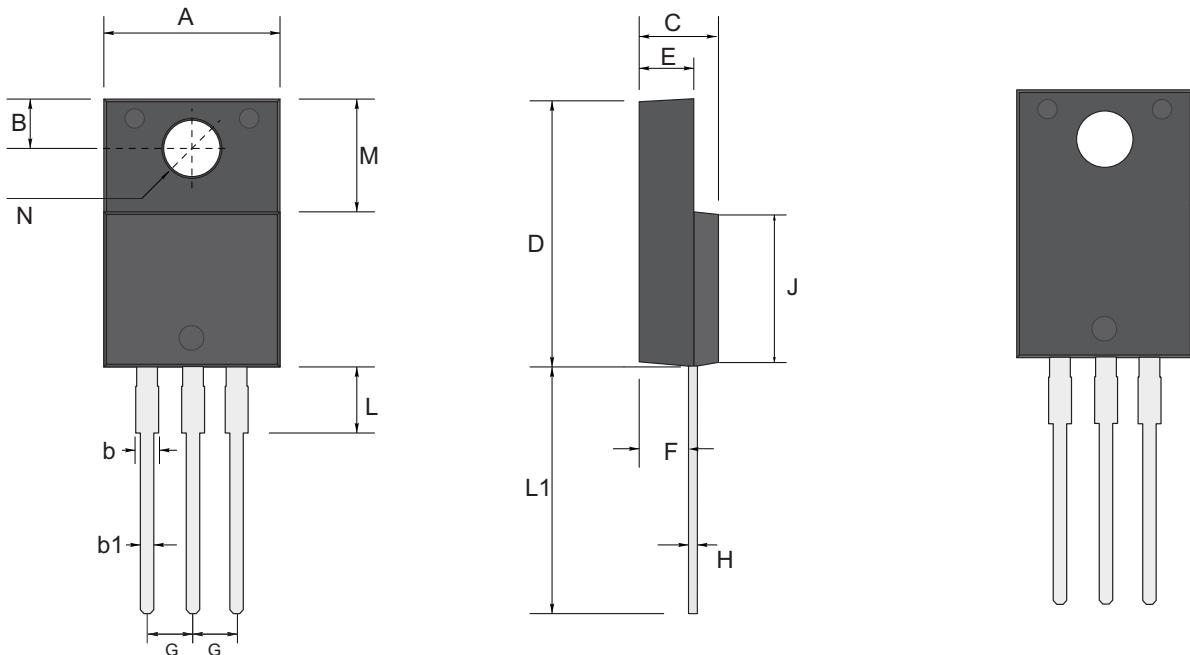
## Ratings And Characteristic Curves

**Fig.1 Typical Forward Current Derating Curve**

**Fig.3 Typical Forward Characteristic**

**Fig.2 Typical Instantaneous Reverse Characteristics**

**Fig.4 Maximum Non-Repetitive Peak Forward Surge Current**


The curve above is for reference only.

## Outline

ITO-220AB Package Outline Dimensions



UNIT		A	B	b	b1	C	D	E	F	G	H	L	L1	M	N
mm	max	10.5	3.3	1.5	1.0	4.9	16.2	2.9	3.55	2.74	0.70	3.8	14.3	7.0	3.4
	min	9.6	2.54	1.1	0.5	4.3	14.7	2.4	2.56	2.34	0.30	2.3	12.0	6.3	3.0

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