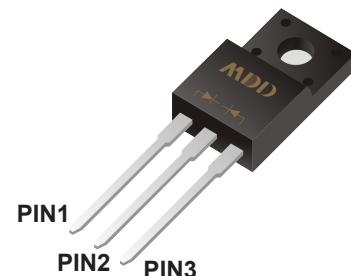


## SCHOTTKY BARRIER RECTIFIER

### 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 MBRF 3045CT	MDD MBRF 3060CT	MDD MBRF 30100CT	MDD MBRF 30150CT	MDD MBRF 30200CT	UNITS
Marking Code							
Maximum repetitive peak reverse voltage	$V_{RRM}$	45	60	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	32	42	70	135	140	V
Maximum DC blocking voltage	$V_{DC}$	45	60	100	150	200	V
Maximum average forward rectified current (see fig.1)	$I_{(AV)}$				30.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$		250		300		A
Maximum instantaneous forward voltage at 15.0A	$V_F$	0.70	0.75	0.85	0.95		V
Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=100^\circ C$	$I_R$		1.0		0.2		mA
		15.0	50.0		50.0		
Typical thermal resistance (NOTE 2)	$R_{\theta JC}$		2.0		1.5		$^\circ C/W$
Operating junction temperature range	$T_J$			-55 to +150			$^\circ C$
storage temperature range	$T_{STG}$			-55 to +150			$^\circ C$

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to case.

## Ratings And Characteristic Curves

Fig.1 Typical Forward Current Derating Curve

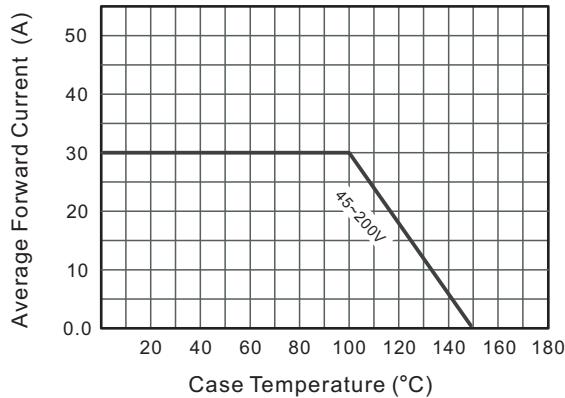


Fig.3 Typical Forward Characteristic(per leg)

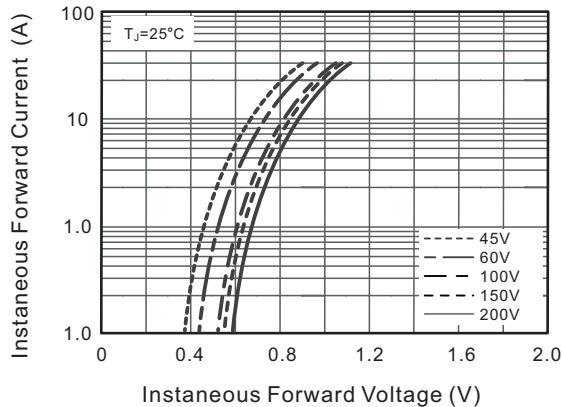


Fig.2 Typical Reverse Characteristics

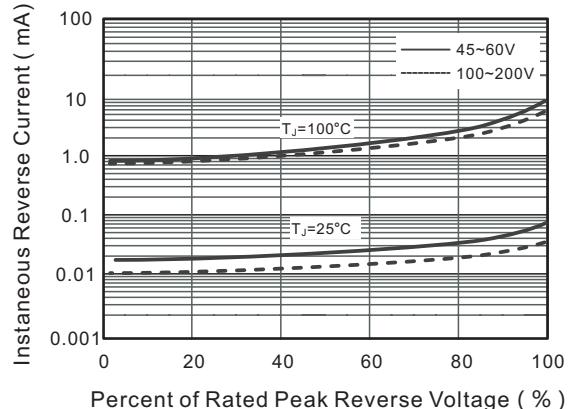
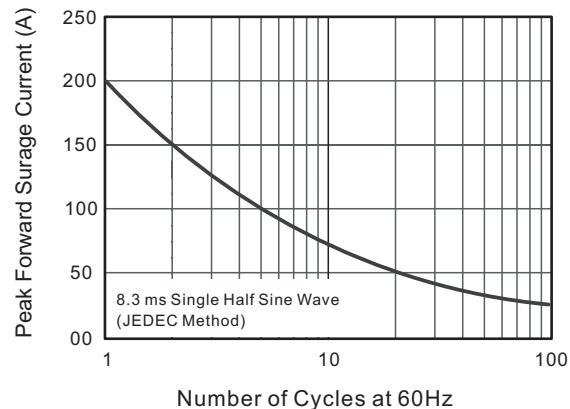


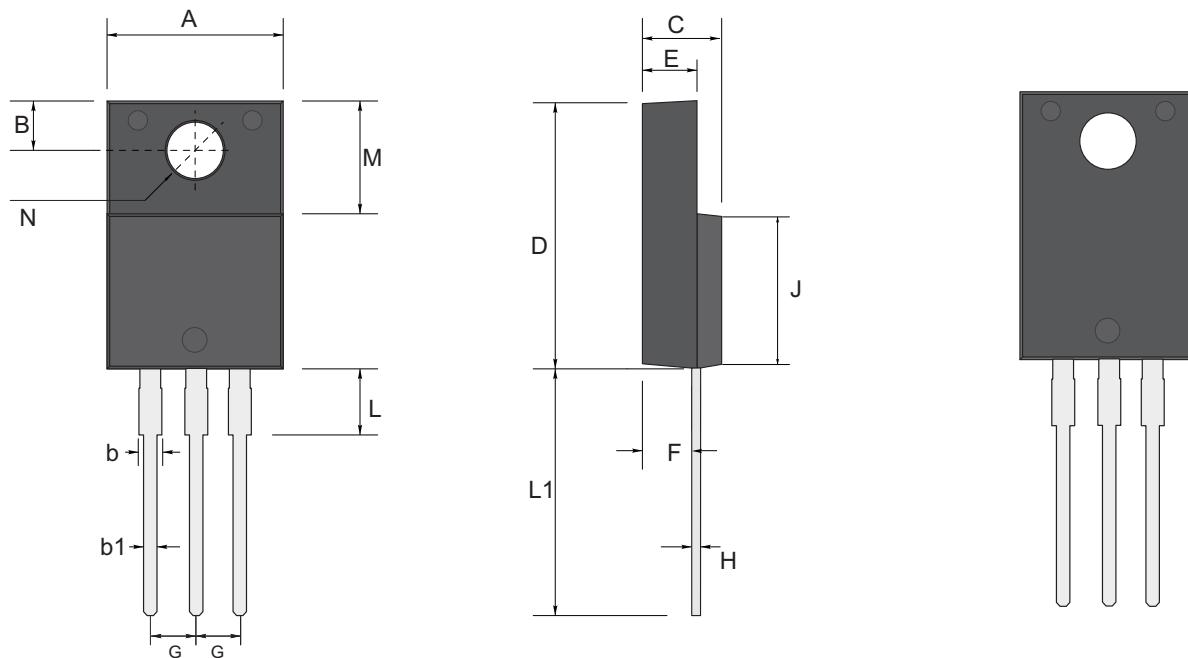
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



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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