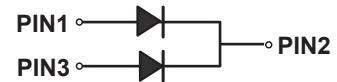
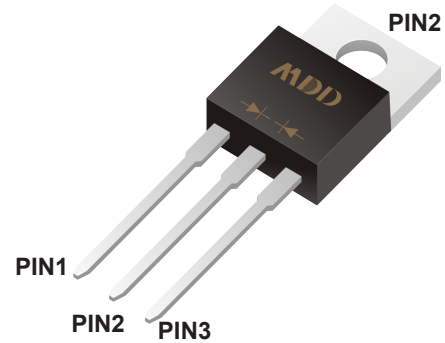


## SCHOTTKY BARRIER RECTIFIER

### 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

**TO-220AB**



### Mechanical Data

**Case** : JEDEC TO-220AB Molded plastic body  
**Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026  
**Polarity** : Polarity symbol marking on body  
**Mounting Position** : Any  
**Weight** : 0.060 ounce, 1.67 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	MDD	MDD	MDD	MDD	UNITS
		MBR	MBR	MBR	MBR	MBR	
Marking Code		1045CT	1060CT	10100CT	10150CT	10200CT	
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)	$I_{(AV)}$	10.0					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150			125		A
Maximum instantaneous forward voltage at 5.0A	$V_F$	0.60	0.75	0.85	0.95		V
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ C$ $T_A=100^\circ C$	$I_R$	1.0			0.1		mA
		15.0	50.0		15.0		
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

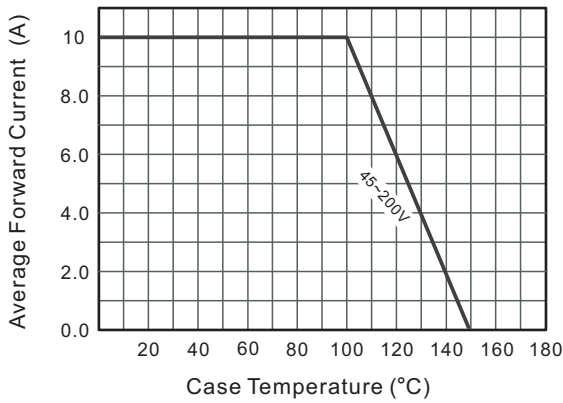


Fig.2 Typical Reverse Characteristics

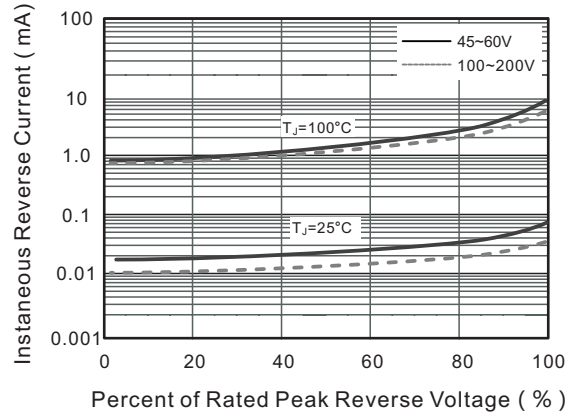


Fig.3 Typical Forward Characteristic(per leg)

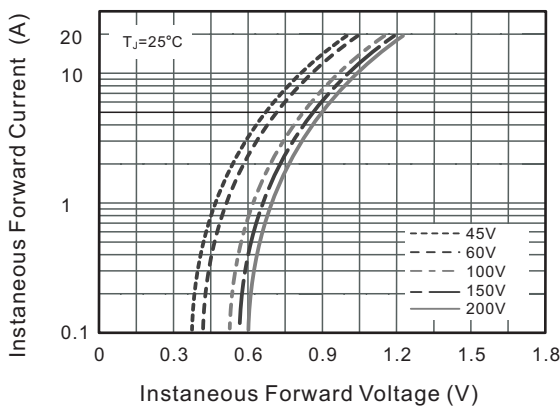
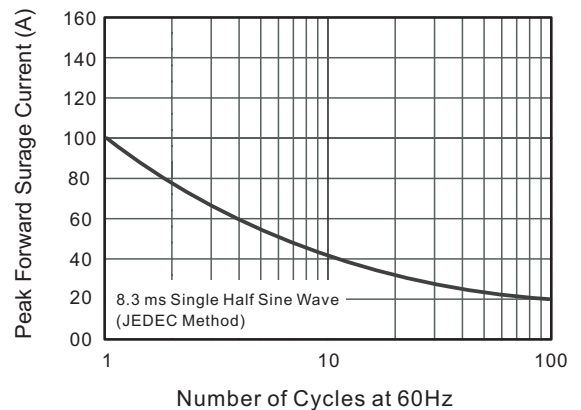


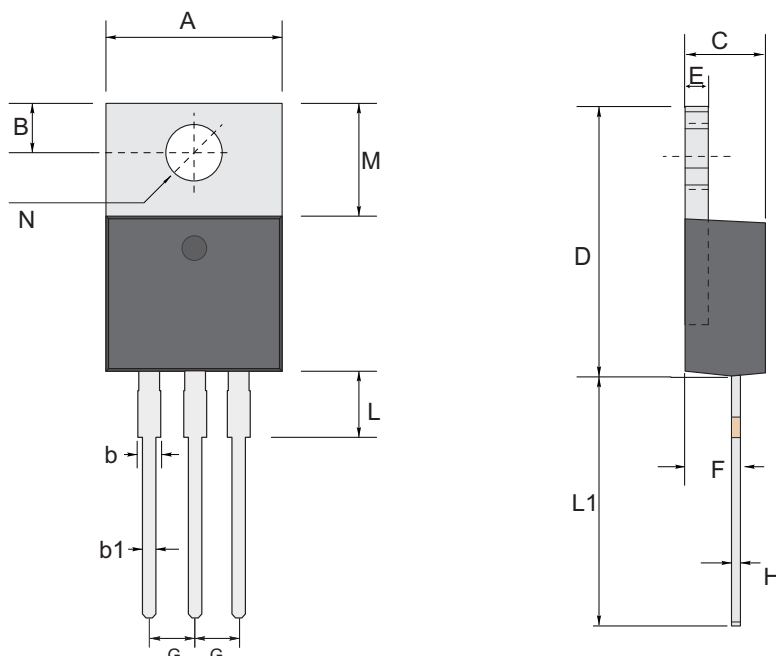
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.

## Outline

### TO-220AB Package Outline Dimensions



### TO-220AB mechanical data

UNIT		A	B	b	b1	C	D	E	F	G	H	L	L1	M	N
mm	max	10.45	2.94	1.77	0.94	4.76	16.0	1.40	2.90	2.54 TYPICAL	0.64	4.2	14.79	6.60	3.86
	min	9.85	2.54	1.14	0.62	4.42	14.6	1.14	2.20		0.35	2.8	13.00	6.13	3.8

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