

## MBR1640CT~MBR16200CT

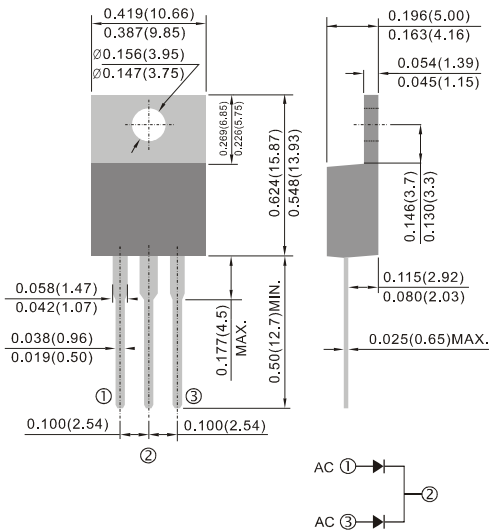
### SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 to 200 Volts CURRENT 16 Amperes



#### TO-220AB

Unit : inch(mm)



#### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- Lead free in comply with EU RoHS 2002/95/EC directives

#### MECHANICAL DATA

- Case: TO-220AB molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.

#### MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR 1640CT	MBR 1645CT	MBR 1650CT	MBR 1660CT	MBR 1680CT	MBR 1690CT	MBR 16100CT	MBR 16150CT	MBR 16200CT	UNITS	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	45	50	60	80	90	100	150	200	V	
Maximum RMS Voltage	$V_{RMS}$	28	31.5	35	42	56	63	70	105	140	V	
Maximum DC Blocking Voltage	$V_{DC}$	40	45	50	60	80	90	100	150	200	V	
Maximum Average Forward (See Figure 1)	$I_{F(AV)}$	16 8									A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	200									A	
Maximum Forward Voltage at 8A per leg	$V_F$	0.55		0.7		0.85			0.95		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$ $T_J=100^{\circ}C$	$I_R$						0.2 20					mA
Typical Thermal Resistance	$R_{\theta JC}$						2					$^{\circ}C / W$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125					-55 to +150					$^{\circ}C$

NOTES:Both Bonding and Chip structure are available.

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**RATING AND CHARACTERISTIC CURVES**

