



**TO- 220F SCHOTTKY BARRIER RECTIFIERS**

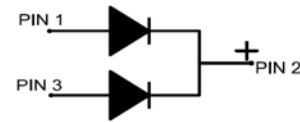
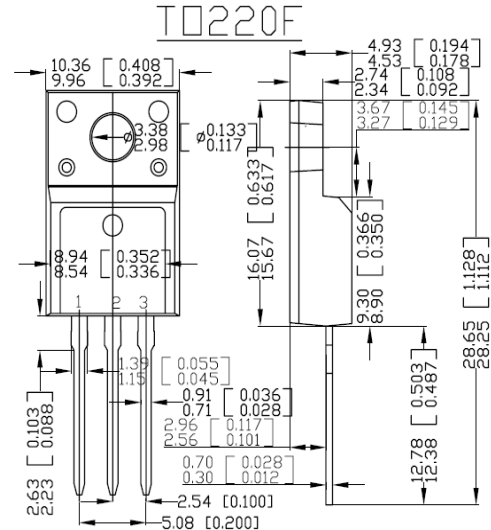
**MBR20100CT MBR20200CT**

**FEATURES:**

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Metal silicon junction Majority carrier conduction
- Low powerloss,high efficiency
- High current capability,low forward voltage drop
- High temperature soldering guaranteed: 250°C/10seconds, 0.25"(6.35mm) from case

**MECHANICAL DATA**

Case : JEDEC ITO-220AB molded plastic  
 Terminals : Leads solderable per MIL-STD-750 Method 2026  
 Polarity :As marked  
 Mounting Position: Any  
 Mounting Torque 5 In - lbs.max  
 Weight : 0.08 ounce,2.24 grams



Dimensions in millimeters and (inches)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 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%.

Characteristic	Symbol	MBR20100CT	MBR20200CT	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	100	200	Volts
Maximum RMS voltage	$V_{RMS}$	70	140	Volts
Maximum DC blocking voltage	$V_{DC}$	100	200	Volts
Maximum average forward rectified current at $T_C=125^\circ C$ (Per Pak)	$I_{(AV)}$	20		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	$I_{FSM}$	150		Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2)	$V_F$	0.86	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Per leg)(NOTE 2)	$I_R$	$T_C=25^\circ C$ : 0.15 $T_C=125^\circ C$ : 150		mA
Typical thermal resistance(Per leg)(NOTE 1)	$R_{th-JC}$	3.5		$^\circ C/W$
Operating temperature range	$T_J$	-65to +150		$^\circ C$
Storage temperature range	$T_{stg}$	-65to +175		$^\circ C$

NOTES:  
 (1)Thermal resistance from junction to case  
 (2)Pulse test : 300 us pulse width, 1% duty cycle

# MBR20100CT THUR MBR20200CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

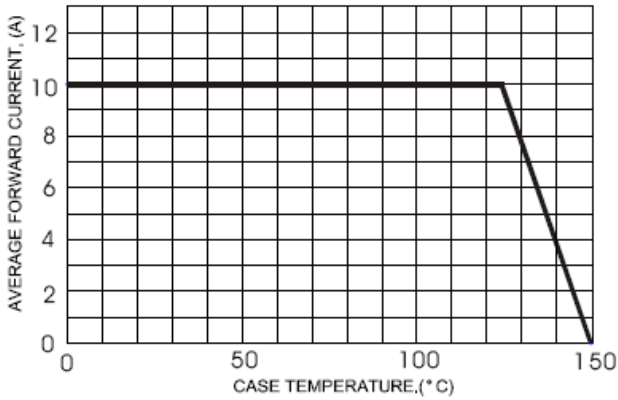


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

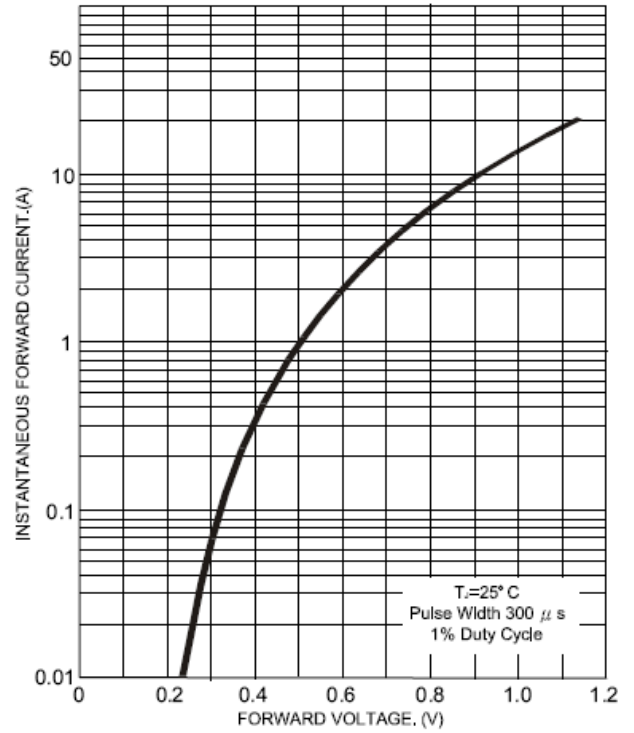


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

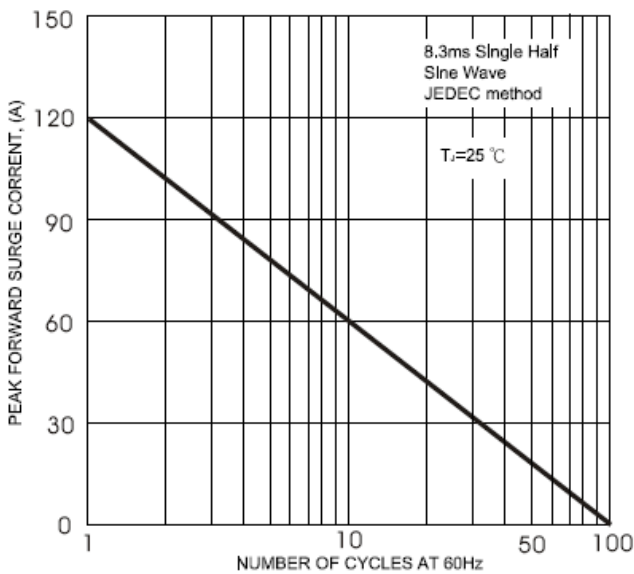


FIG.5- TYPICAL REVERSE CHARACTERISTICS

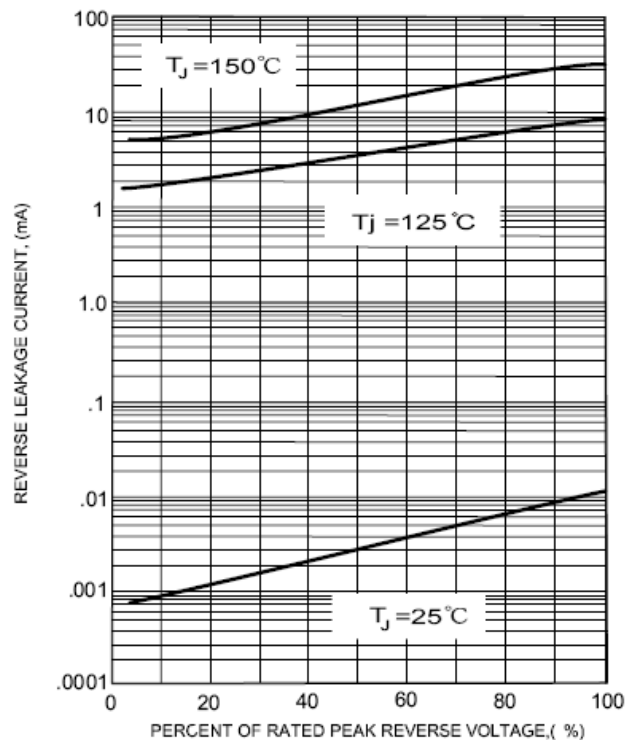


FIG.4- TYPICAL JUNCTION CAPACITANCE

