



SHEN ZHEN LONG JING MICRO-ELECTRONICS CO., LTD

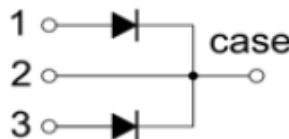
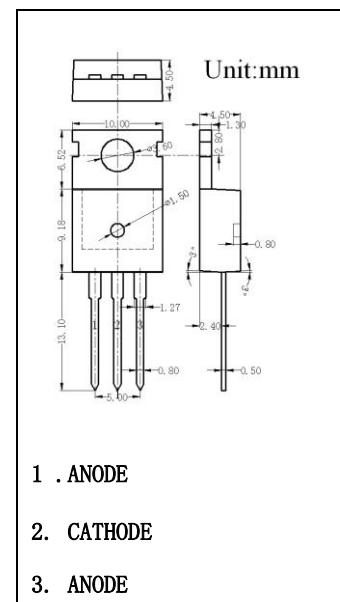
TO-220 Plastic-Encapsulate Diodes

MBR2060CT

SCHOTTKY BARRIER RECTIFIER

FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak repetitive reverse voltage	60	V
V_{RWM}	Working peak reverse voltage		V
V_R	DC blocking voltage		V
$V_{R(\text{RMS})}$	RMS reverse voltage	42	V
I_o	Average rectified output current @ $T_c=125^\circ\text{C}$	20	A
I_{FSM}	Non-Repetitive peak forward surge current 8.3ms half sine wave	150	A
P_D	Power dissipation	2.0	W
R_{JA}	Thermal resistance from junction to ambient	60	$^\circ\text{C} / \text{W}$
T_j	Junction Temperature	-65~+150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-65~+175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(\text{BR})}$	$I_R=0.1\text{mA}$	60			V
Reverse current	I_R	$V_R=60\text{V}$			0.15	mA
Forward voltage	V_F	$I_F=10\text{A}$			0.8	V
		$I_F=20\text{A}$			0.95	V
Typical total capacitance	C_{tot}	$V_R=4\text{V}, f=1\text{MHz}$		650		pF

Typical Characteristics

