



MBR1060C

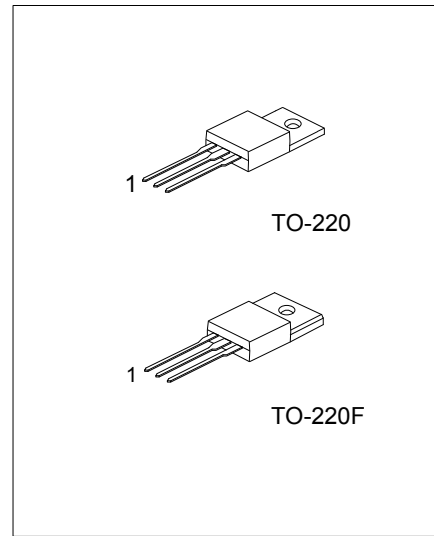
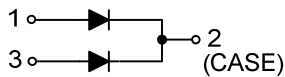
DIODE

SCHOTTKY BARRIER RECTIFIER DIODES

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

SYMBOL



Lead-free: MBR1060CL
Halogen-free: MBR1060CG

ORDERING INFORMATION

Ordering Number			Package	Pin Assignment			Packing
Normal	Lead Free	Halogen Free		1	2	3	
MBR1060C-TA3-T	MBR1060CL-TA3-T	MBR1060CG-TA3-T	TO-220	A	K	A	Tube
MBR1060C-TF3-T	MBR1060CL-TF3-T	MBR1060CG-TF3-T	TO-220F	A	K	A	Tube

Note: Pin Assignment: A: Anode K: Cathode

<p>MBR1060CL-TA3-T</p> <p>(1) Packing Type (2) Package Type (3) Lead Plating</p>	<p>(1) T: Tube (2) TA3: TO-220, TF3: TO-220F (3) G: Halogen Free, L: Lead Free, Blank: Pb/Sn</p>
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■ **ELECTRICAL CHARACTERISTICS RATINGS** (Ta=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	60	V	
Maximum DC Blocking Voltage	V _R	60	V	
Working Peak Reverse Voltage	V _{RWM}	60	V	
Maximum PMS Reverse Voltage	V _{R(RMS)}	42	V	
Average Forward Rectified Output Current (Note 1)(T _C =105°C)	I _{OUT}	10	A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave	I _{FSM}	125	A	
Repetitive Peak Reverse Surge Current (t _p ≤ 2.0μs)	I _{RRM}	1.0	A	
Forward Voltage Drop	V _{FM}	I _F =5.0A, T _C =125°C	0.70	V
		I _F =5.0A, T _C =25°C	0.80	V
		I _F =10A, T _C =25°C	0.95	V
Peak Reverse Current at Rated DC Blocking Voltage	I _{RM}	T _C = 25°C	0.1	mA
		T _C =125°C	15	mA
Typical Junction Capacitance (Note 2)	C _J	150	pF	
Operating Temperature	T _J	-65 ~ +150	°C	
Storage Temperature	T _{STG}	-65 ~ +150	°C	

- Notes: 1. Thermal resistance junction to case mounted heat sink.
 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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