



MBR10100C

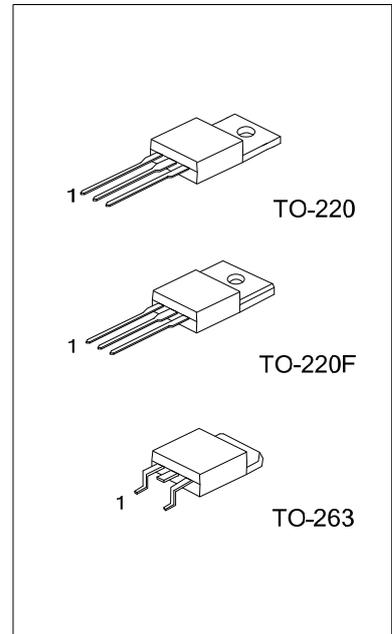
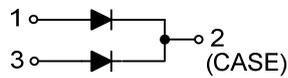
DIODE

SCHOTTKY BARRIER RECTIFIER

FEATURES

- * 10 amps total (5 amps per diode leg)
- * Guard ring for transient protection
- * Low forward voltage drop
- * High surge capability
- * Low power loss/High efficiency

SYMBOL



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
MBR10100CL-TA3-T	MBR10100CG-TA3-T	TO-220	A	K	A	Tube
MBR10100CL-TF3-T	MBR10100CG-TF3-T	TO-220F	A	K	A	Tube
MBR10100CL-TQ2-T	MBR10100CG-TQ2-T	TO-263	A	K	A	Tube
MBR10100CL-TQ2-R	MBR10100CG-TQ2-R	TO-263	A	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>MBR10100CL-TA3-T</p> <p>(1)Packing Type (2)Package Type (3)Lead Free</p>	<p>(1) T: Tube, R: Tape Reel (2) TA3: TO-220, TF3: TO-220F, TQ2: TO-263 (3) G: Halogen Free, L: Lead Free</p>
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■ THERMAL DATA

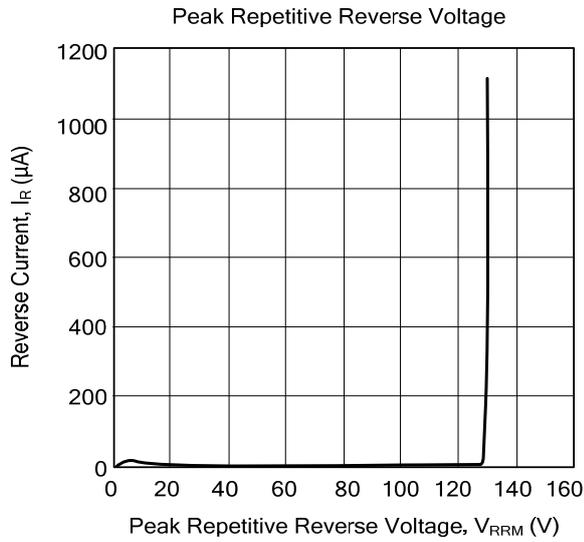
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	60	°C/W
Junction to Case	θ_{Jc}	2.0	°C/W

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

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum non-repetitive Peak Reverse Voltage	V_{RM}	100	V
Maximum DC Blocking Voltage	V_R	100	V
Average Forward Rectified Output Current	Per Leg	5	A
	Total Device	10	A
Forward Voltage	$I_F=5\text{A}, T_C=25^\circ\text{C}$	0.85	V
	$I_F=10\text{A}, T_C=25^\circ\text{C}$	0.95	V
Maximum DC Reverse Current@ $V_R=100\text{V}$	I_R	0.1	mA
Junction Capacitance (Note 1)	C_J	300	pF
Operating Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

Note.1: Applied $V_R = 4.0\text{V}$ and $f = 1.0\text{MHz}$.

■ TYPICAL CHARACTERISTICS



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