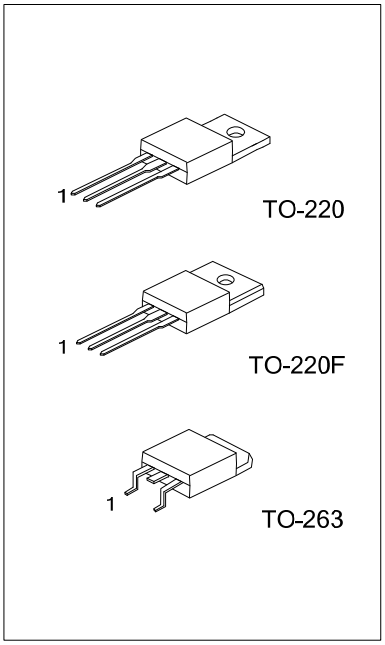
MBR20100C

DIODE

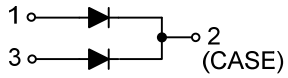
SCHOTTKY BARRIER RECTIFIER



■ FEATURES

* 20 Amps Total (10 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	
MBR20100CL-TA3-T	MBR20100CG-TA3-T	TO-220	A	K	A	Tube
MBR20100CL-TF3-T	MBR20100CG-TF3-T	TO-220F	A	K	A	Tube
MBR20100CL-TQ2-R	MBR20100CG-TQ2-R	TO-263	A	K	A	Tape Reel
MBR20100CL-TQ2-T	MBR20100CG-TQ2-T	TO-263	A	K	A	Tube

Note: Pin Assignment: A: Anode K: Cathode

MBR20100CL-TA3-T

(1)Packing Type

(2)Package Type

(3)Lead Free

(1) T: Tube, R: Tape Reel

(2) TA3: TO-220, TF3, TO-220F, TQ2: TO-263

(3) G:Halogen Free, L: Lead Free

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER			SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage			V_{RRM}	100	V
Maximum DC Blocking Voltage			V_R	100	V
Working Peak Reverse Voltage			V_{RWM}	100	V
Maximum PMS Reverse Voltage			$V_{R(RMS)}$	70	V
Average Forward Rectified Output Current		Per Leg	I_{OUT}	10	A
		Total Device		20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave			I_{FSM}	150	A
Forward Voltage	T_C=25°C	I_F=10A	V_F	0.85	V
		I_F=20A		0.95	V
	T_C=125°C	I_F=10A		0.75	V
		I_F=20A		0.85	V
Maximum DC Reverse Current		T_C=25°C	I_R	0.15	mA
		T_C=125°C		150	mA
Junction Capacitance (Note 1)			C_J	1000	pF
Operating Temperature			T_J	-55 ~ +150	°C
Storage Temperature			T_{STG}	-55 ~ +150	°C

Notes.1: Applied V_R = 4.0V and f = 1.0MHz.

■ TYPICAL CHARACTERISTICS