



MBR20100

Preliminary

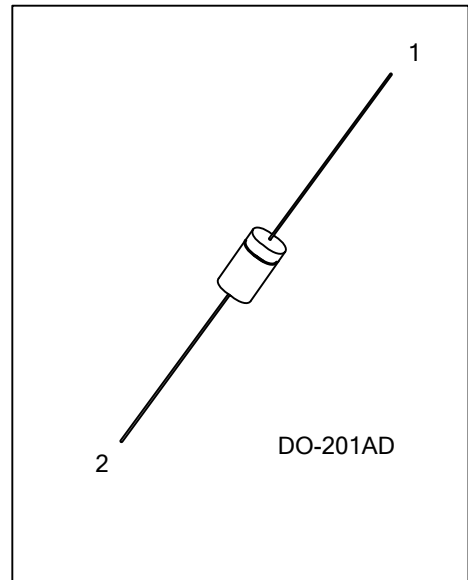
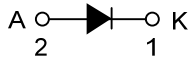
DIODE

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



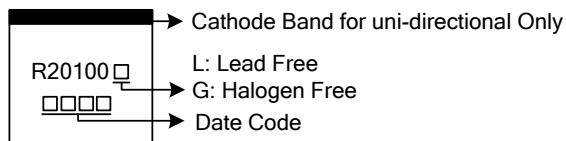
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
MBR20100L-Z21D-B	MBR20100G-Z21D-B	DO-201AD	K	A	Tape Box

Note: Pin Assignment: A: Anode K: Cathode

<p>MBR20100L-Z21D-B</p> <ul style="list-style-type: none"> (1) Packing Type (2) Package Type (3) Green Package 	<ul style="list-style-type: none"> (1) B: Tape Box (2) Z21D: DO-201AD (3) L: Lead Free, G: Halogen Free and Lead Free
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MARKING



■ ABSOLUTE MAXIMUM RATINGS (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)}	90	V
Average Forward Rectified Output Current	I _O	20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave	I _{FSM}	150	A
Junction Capacitance (Note 4)	C _J	1000	pF
Operating Temperature	T _J	-55 ~ +150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

■ THERMAL RESISTANCES CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ _{JA}	20	°C/W

■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage Drop (Note 3)	V _F	I _F =20A, T _C =25°C			0.84	V
		I _F =20A, T _C =125°C			0.74	V
Instantaneous Reverse Current (Note 3)	I _R	Rated DC Voltage, T _C =25°C			0.1	mA
		Rated DC Voltage, T _C =125°C			30	mA

Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. 2.0μs Pulse Width, f = 1.0KHz.

3. Pulse Test: Pulse Width = 300μs, Duty Cycle ≤ 2.0%.

4. Applied V_R = 4.0V and f = 1.0MHz.

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