

**MBR360**

Preliminary

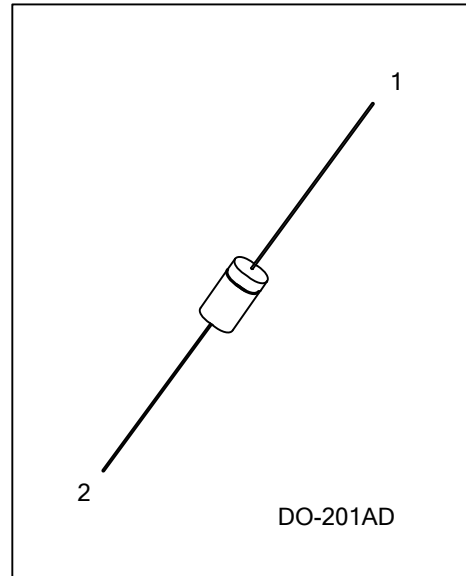
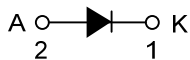
DIODE**3.0A, 60V SCHOTTKY BARRIER RECTIFIER****■ DESCRIPTION**

The UTC **MBR360** is a 3.0A schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high efficiency, etc.

The UTC **MBR360** is suitable for free wheeling diodes, high frequency inverters, low voltage and polarity protection diodes.

■ FEATURES

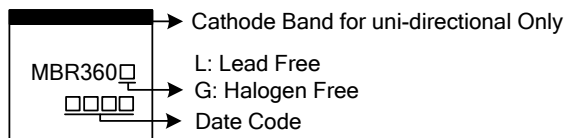
- * Low forward voltage drop
- * Low power loss
- * High efficiency

■ SYMBOL**■ ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
MBR360L-Z21D-B	MBR360G-Z21D-B	DO-201AD	K	A	Tape Box

Note: Pin Assignment: A: Anode K: Cathode

MBR360L-Z21D-B (1) Packing Type (2) Package Type (3) Green Package	(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 ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_R	60	V
Working Peak Reverse Voltage	V_{RWM}	60	V
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
Average Rectified Output Current $T_A=65^{\circ}\text{C}$ ($\theta_{JA}=28^{\circ}\text{C/W}$, P.C. Board Mounting)	I_O	3.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	80	A
Operating Junction Temperature (Reverse Voltage Applied)	T_J	-65~+150	$^{\circ}\text{C}$
Storage Temperature (Reverse Voltage Applied)	T_{STG}	-65~+150	$^{\circ}\text{C}$

Note: 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.

■ THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	50	$^{\circ}\text{C/W}$

■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified) (Note 1)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note 2)	V_F	$I_F=1.0\text{A}$			0.600	V
		$I_F=3.0\text{A}$			0.740	V
		$I_F=9.4\text{A}$			1.080	V
Instantaneous Reverse Current @ Rated DC Voltage (Note 2)	I_R	$T_L=25^{\circ}\text{C}$			0.60	mA
		$T_L=100^{\circ}\text{C}$			20	mA

Notes: 1. Lead Temperature reference is cathode lead 1/32 in from case.

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

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