



MBR360

Preliminary

DIODE

3.0A, 60V SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

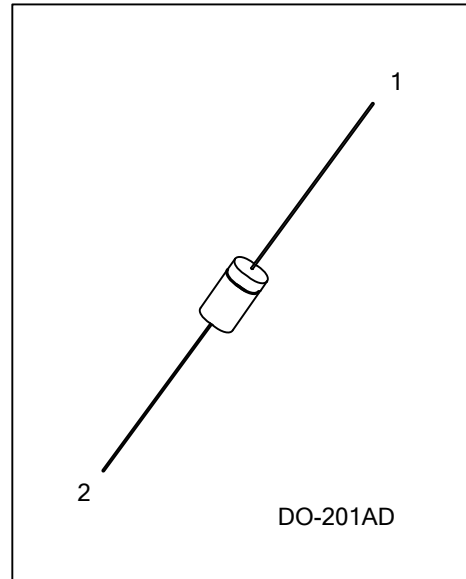
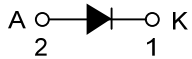
The UTC MBR360 is a 3.0A schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high efficiency, etc.

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



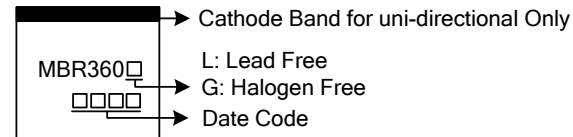
ORDERING INFORMATION

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

<p>MBR360L-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
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°C (θ _{JA} =28°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	°C
Storage Temperature (Reverse Voltage Applied)	T _{STG}	-65~+150	°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	°C/W

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified) (Note 1)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note 2)	V _F	I _F =1.0A			0.600	V
		I _F =3.0A			0.740	V
		I _F =9.4A			1.080	V
Instantaneous Reverse Current @ Rated DC Voltage (Note 2)	I _R	T _L =25°C			0.60	mA
		T _L =100°C			20	mA

Notes: 1. Lead Temperature reference is cathode lead 1/32 in from case.
2. Pulse Test: Pulse Width=300µs, Duty Cycle=2.0%.

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