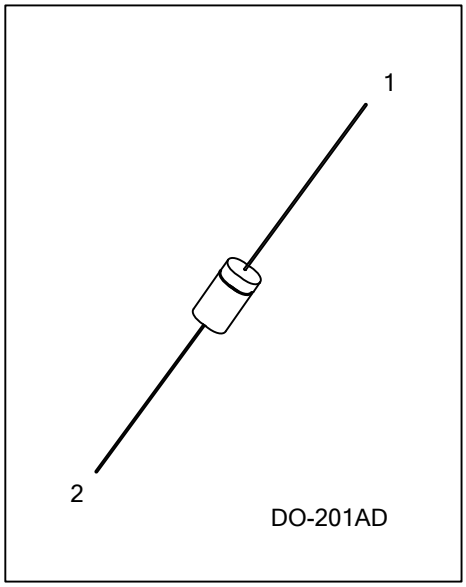
3.0A, 60V SCHOTTKY BARRIER RECTIFIER



■ DESCRIPTION

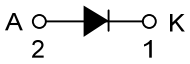
The UTC **MBR360** is a 3.0A schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high efficiency, etc.

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

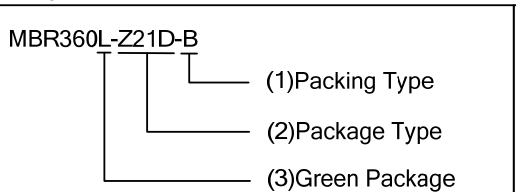
■ SYMBOL



■ 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

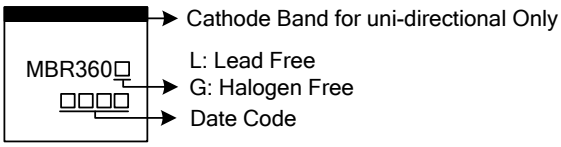


(1) B: Tape Box

(2) Z21D: DO-201AD

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

■ 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%.