



## MBR560

Preliminary

DIODE

### SCHOTTKY BARRIER RECTIFIER

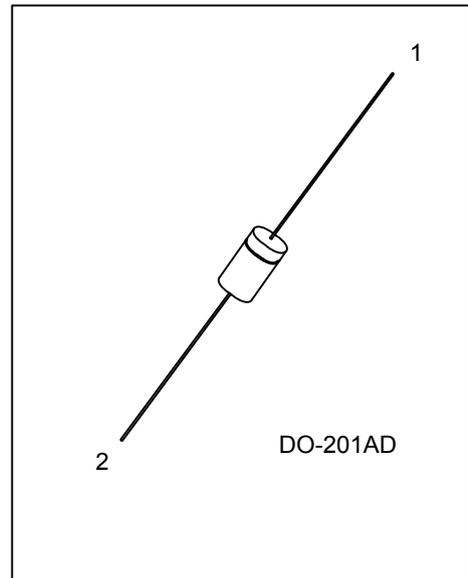
#### DESCRIPTION

The UTC **MBR560** is a schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop, high current capability and high efficiency, etc.

The UTC **MBR560** is suitable for use in free wheeling, high frequency inverters, low voltage and polarity protection applications.

#### FEATURES

- \* High efficiency
- \* Low power loss
- \* High surge capability
- \* High current capability



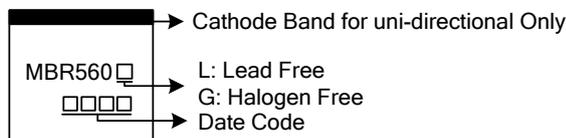
#### ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
MBR560L-Z21D-B	MBR560G-Z21D-B	DO-201AD	K	A	Tape Box

Note: Pin Assignment: A: Anode K: Cathode

<p>MBR560L-Z21D-B</p> <p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Green Package</p>	<p>(1) B: Tape Box</p> <p>(2) Z21D: DO-201AD</p> <p>(3) L: Lead Free, G: Halogen Free and Lead Free</p>
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#### MARKING



■ **ABSOLUTE MAXIMUM RATINGS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	$V_{DC}$	60	V
Recurrent Peak Reverse Voltage	$V_{RRM}$	60	V
Average Rectified Output Current	$I_O$	5	A
Non-Repetitive Peak Forward Surge Current: 8.3ms Single Half Sine-Wave Superimposed on Rated Load	$I_{FSM}$	150	A
Operating Junction Temperature	$T_J$	-65 ~ +150	°C
Storage Temperature	$T_{STG}$	-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 RESISTANCES CHARACTERISTICS**

PARAMETER	SYMBOL	RATINGS	UNIT
Typical Thermal Resistance	$\theta_{JA}$	25	°C/W

■ **ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	$V_F$	$I_F=5.0A, T_J=25^\circ C$			0.72	V
		$I_F=5.0A, T_J=125^\circ C$			0.62	V
Peak Reverse Current at Rated DC Blocking Voltage	$I_R$	$V_R=60, T_J=25^\circ C$			50	$\mu A$
		$V_R=60, T_J=100^\circ C$			10	mA

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