



## MBR0560

Preliminary

DIODE

### 0.5 AMP SCHOTTKY RECTIFIER 20 to 100 VOLTS

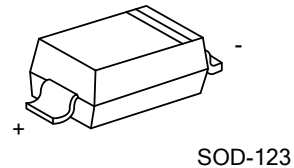
#### DESCRIPTION

The UTC **MBR0560** is a Schottky Rectifier with high current capacity, ultra low thermal resistance and low forward voltage.

The UTC **MBR0560** is suitable for surface mount applications.

#### FEATURES

- \* Ultra Low Thermal Resistance
- \* High Current Capability
- \* Low Forward Voltage



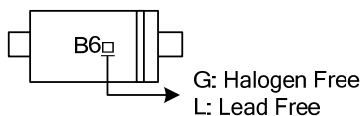
#### ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
MBR0560L-CA2-R	MBR0560G-CA2-R	SOD-123	A	C	Tape Reel

Note: Pin assignment: A: Anode C: Cathode

MBR0560L-AC2-R	(1)Packing Type (2)Package Type (3)Lead Free	(1) R: Tape Reel (2) CA2: SOD-123 (3) G: Halogen Free, L: Lead Free
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#### MARKING



### ■ ABSOLUTE MAXIMUM RATINGS(@ 25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Recurrent Peak Reverse Voltage	$V_{RRM}$	60	V
RMS Voltage	$V_{RMS}$	42	V
DC Blocking Voltage	$V_{DC}$	60	V
Operating Temperature	$T_{OPR}$	-55~+150	°C
Storage Temperature	$T_{STG}$	-55~+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.

### ■ ELECTRICAL CHARACTERISTICS (@ 25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Average Forward Current	$I_{F(AV)}$	$T_J=115^{\circ}\text{C}$		0.5		A
Peak Forward Surge Current	$I_{FSM}$	8.3ms half sine		5.5		A
Maximum Instantaneous Forward Voltage	$V_F$	$I_{FM}=0.5\text{A } T_A=25^{\circ}\text{C}$		0.70		V
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	$T_J=25^{\circ}\text{C}$			0.2	mA
Typical Junction Capacitance	$C_J$	Measured at 1.0MHz, $V_R=4.0\text{V}$		30		pF

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