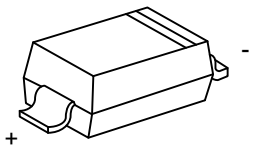
MBR0560

Preliminary

DIODE

0.5 AMP SCHOTTKY RECTIFIER 20 to 100 VOLTS



SOD-123

■ 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

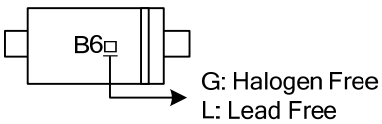
Note: Pin assignment: A: Anode C: Cathode

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

■ 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°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}=0.5A T_A=25°C		0.70		V
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	T_J=25°C			0.2	mA
Typical Junction Capacitance	C_J	Measured at 1.0MHz, V_R=4.0 V		30		pF