

UTC UNISONIC TECHNOLOGIES CO., LTD

MBR1100 Preliminary DIODE

1.0A, 100V SCHOTTKY **BARRIER RECTIFIER**

DESCRIPTION

The UTC MBR1100 is a 1.0A schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop, low reverse current and high efficiency, etc.

The UTC MBR1100 is suitable for free wheeling diodes, high frequency inverters, low voltage and polarity protection diodes.

FEATURES

- * Low forward voltage drop
- * Low reverse current
- * High surge capacity
- * Low power loss
- * High efficiency

SYMBOL



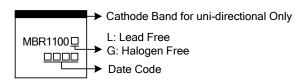
ORDERING INFORMATION

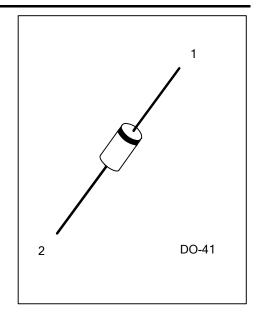
Ordering Number		Dookogo	Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1	2	Packing	
MBR1100L-Z41-B	MBR1100G-Z41-B	DO-41	K	Α	Tape Box	
MBR1100L-Z41-R	MBR1100G-Z41-R	DO-41	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING





www.unisonic.com.tw 1 of 3

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_R	100	V
Working Peak Reverse Voltage	V_{RWM}	100	V
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Reverse Voltage	$V_{R(RMS)}$	70	V
Average Forward Rectified Output Current	Io	1.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave	I _{FSM}	50	Α
Voltage Rate of Change (Rated V _R)	dv/dt	10	V/ns
Operating Junction Temperature (Note 1)	TJ	-65~+150	°C
Storage Temperature (Note 1)	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 (Note 2) (T_A=25°C, unless otherwise noted.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note 2)	l V⊧	I _F =1A, T _L =25°C			0.79	V
Instantaneous Forward Voltage (Note 2)		I _F =1A, T _L =100°C			0.69	V
Instantaneous Reverse Current @ Rated dc		T _L =25°C			50	μΑ
Voltage (Note 2)		T _L =100°C			5.0	mA

Notes: 1. The heat generated must be less than the thermal conductivity from Junction to Ambient: $P_D/T_J < 1/\theta_{JA}$.

^{2.} Pulse Test: Pulse Width=300µs, Duty Cycle≤2.0%.

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

