UNISONIC TECHNOLOGIES CO., LTD

SB160 DIODE

1.0A SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

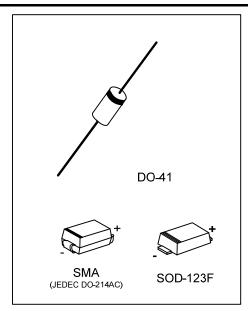
The UTC SB160 is a Schottky Rectifier with high current capacity and low forward voltage.

The UTC SB160 is suitable for polarity protection ,low voltage and high frequency inverters and free wheeling applications.

FEATURES

- * High Current Capability
- * Low Forward Voltage
- **SYMBOL**

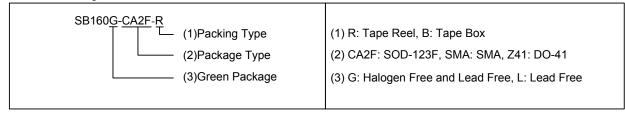




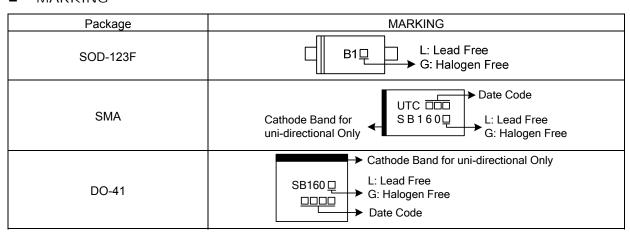
ORDERING INFORMATION

Ordering Number		Dooksons	Pin Assignment		Deaking	
Lead Free	Halogen Free	Package	1	2	Packing	
SB160L-CA2F-R	SB160G-CA2F-R	SOD-123F	K	Α	Tape Reel	
SB160L-SMA-R	SB160G-SMA-R	SMA	K	Α	Tape Reel	
SB160L-Z41-R	SB160G-Z41-R	DO-41	K	Α	Tape Reel	
SB160L-Z41-B	SB160G-Z41-B	DO-41	K	Α	Tape Box	

Pin Assignment: A: Anode Note: K: Cathode



MARKING



www.unisonic.com.tw 1 of 3 SB160 DIODE

■ ABSOLUTE MAXIMUM RATINGS (T_A =25°C unless otherwise specified.)

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Working Peak Reverse Voltage	V_{RWM}	60	V
DC Blocking Voltage	V_R	60	V
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	40	Α
Average Rectified Output Current	Io	1.0	Α
Peak Reverse Current at Rated DC T _A = 25°C		0.5	mA
Blocking Voltage T_A = 100°C	I _{RM}	5.0	mA
Operating Temperature	TJ	-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 DATA

PARAMETER		SYMBOL	RATINGS	UNIT
	SOD-123F	0	25 (Note)	°C/W
Typical Thermal Resistance	SMA	θ _{JL}	20 (Note)	°C/W
	DO-41	θ_{JC}	22	°C/W

Note: FR-4 PCB, 2 oz Copper. Minimum recommended pad layout.

■ ELECTRICAL CHARACTERISTICS (T_A =25°C unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	I _R =0.50mA	60			V
Forward Voltage Drop	V_{FM}	I _F =1.0A			0.7	V
Deals Deverge Correct at Detail DC Blacking Valtage		T _A =25°C			500	μΑ
Peak Reverse Current at Rated DC Blocking Voltage	IRM	T _A =100°C			5.0	mA

Note: Pulse width \leq 300 μ s, duty cycle \leq 2%.

SB160 DIODE

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. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.