

UNISONIC TECHNOLOGIES CO., LTD

SB345 Preliminary DIODE

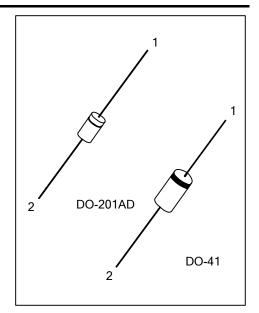
SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC SB345 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.

FEATURES

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



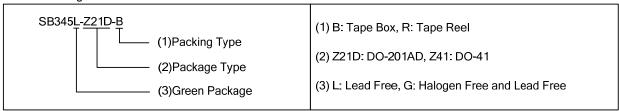
SYMBOL



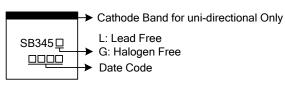
ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1	2	Packing	
SB345L-Z21D-B	SB345G-Z21D-B	DO-201AD	K	Α	Tape Box	
SB345L-Z41-R	SB345G-Z41-R	DO-41	K	Α	Tape Reel	
SB345L-Z41-B	SB345G-Z41-B	DO-41	K	Α	Tape Box	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



www.unisonic.com.tw 1 of 3

ABSOLUTE MAXIMUM RATINGS

Single phase, half wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated.

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_{DC}	45	V
Recurrent Peak Reverse Voltage	V_{RRM}	45	V
RMS Voltage	V_{RMS}	31.5	V
Average Forward Rectified Current 3/8" Lead Length	lo	3.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100	А
Operating Junction 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
Junction to Ambient (Note 2)	θ_{JA}	50	°C/W

■ ELECTRICAL CHARACTERISTICS

Single phase, half wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated.

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	V_{F}	I _F =3.0A			0.50	V
DC Reverse Current at Rated DC		T _A =25°C			0.5	mA
Blocking Voltage	IR	T _A =100°C			10.0	mA
Junction Capacitance (Note 1)	CJ			220.0		pF

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

^{2.} Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted.

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.

