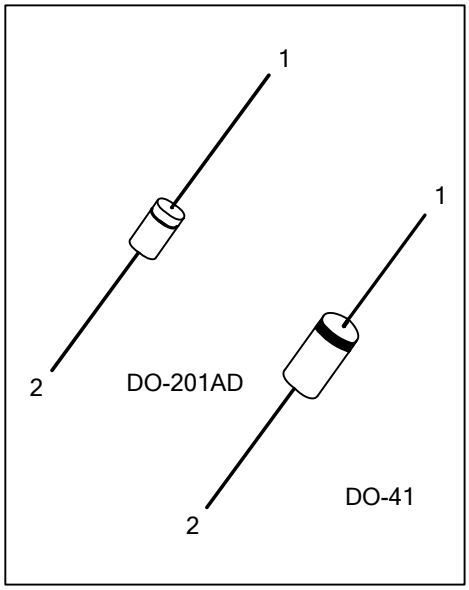
SCHOTTKY BARRIER RECTIFIER



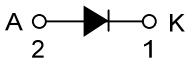
■ DESCRIPTION

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



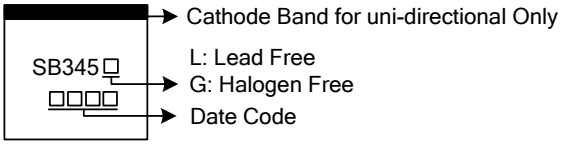
■ ORDERING INFORMATION

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

Note: Pin Assignment: A: Anode K: Cathode

SB345L-Z21D-B (1)Packing Type (2)Package Type (3)Green Package	(1) B: Tape Box, R: Tape Reel (2) Z21D: DO-201AD, Z41: DO-41 (3) L: Lead Free, G: Halogen Free and Lead Free

■ MARKING



■ 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	I_O	3.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	100	A
Operating Junction Temperature	T_J	-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 Blocking Voltage	I_R	T_A=25°C			0.5	mA
		T_A=100°C			10.0	mA
Junction Capacitance (Note 1)	C_J			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.