

UTC 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	A	Tape Box
Note: Din Assignment: A: Anodo K: Cathodo					

Note: Pin Assignment: A: Anode K: Cathode

SB345L- <u>Z21D</u> -B	(1) B: Tape Box
(1)Packing Type (2)Package Type	(2) Z21D: DO-201AD
	(3) L: Lead Free, G: Halogen Free and Lead Free

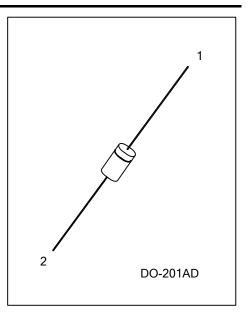
MARKING



Cathode Band for uni-directional Only

L: Lead Free

G: Halogen Free Date Code



■ 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	А
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	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	VF	I _F =3.0A			0.50	V
DC Reverse Current at Rated DC	I _R	T _A =25°C			0.5	mA
Blocking Voltage		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.



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