

# **UTC** UNISONIC TECHNOLOGIES CO., LTD

## **SB360**

Preliminary

## **3.0A SCHOTTKY BARRIER** RECTIFIER

#### DESCRIPTION

The UTC SB360 is 3.0A schottky barrier rectifier. it uses UTC's advanced technology to provide customers with high current capability and low forward voltage drop, etc.

The UTC SB360 is suitable for free wheeling, low voltage and polarity protection applications, etc.

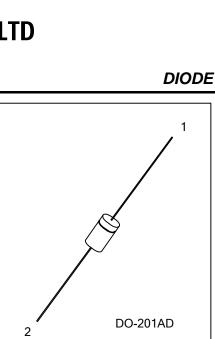
#### **FEATURES**

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

#### **ORDERING INFORMATION**

Ordering Number		Deekege	Pin Assignment		Deaking		
Lead Free	Halogen Free	Package	1	2	Packing		
SB360L-Z21D-R	SB360G-Z21D-R	DO-201AD	К	А	Tape Reel		
Note: Pin Assignment: A: Anode, K: Cathode							

SB360L- <u>Z21D</u> -R (1)Packing Type (2)Package Type	(1) R: Tape Reel
(3)Lead Free	<ul><li>(2) Z21D: DO-201AD</li><li>(3) L: Lead Free, G: Halogen Free</li></ul>



### ■ ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
DC Blocking Voltage		V <sub>R</sub>	60	V
Peak Repetitive Reverse Voltage		V <sub>RRM</sub>	60	V
Working Peak Reverse Voltage		V <sub>RWM</sub>	60	V
RMS Reverse Voltage		V <sub>R(RMS)</sub>	42	V
Average Rectified Output Current (Note 2)		lo	3.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		I <sub>FSM</sub>	80	A
Forward Voltage (Note 3)	I <sub>F</sub> =3.0A	V <sub>FM</sub>	0.74	V
Peak Reverse Current	T <sub>A</sub> =25°C		0.5	mA
at Rated DC Blocking Voltage (Note 3)	T <sub>A</sub> =100°C	I <sub>RM</sub>	10	mA
Junction to Ambient (Note 4)		θ <sub>JA</sub>	30	°C/W
Junction to Lead (Note 4)		$\theta_{JL}$	10	°C/W
Storage Temperature		TJ	-65~+150	°C
Operating Junction Temperature		T <sub>STG</sub>	-65~+150	°C

Notes: 1. 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.

2. Measured at ambient temperature at a distance of 9.5mm from the case.

3. Short duration pulse test used to minimize self-heating effect.

4. Thermal resistance from junction to lead vertical P.C.B. mounted, 0.500" (12.7mm) lead length with 2.5x2.5" (63.5x63.5mm) copper pad.



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