UNISONIC TECHNOLOGIES CO., LTD

SB360 DIODE

3.0A SCHOTTKY BARRIER RECTIFIER

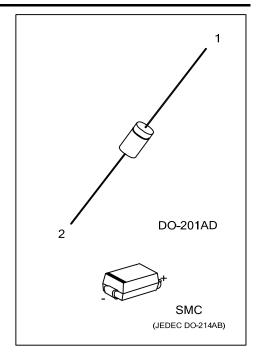
DESCRIPTION

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



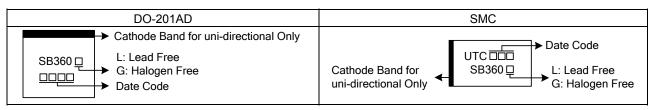
ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment		Dooking	
Lead Free	Halogen Free	- Package	1	2	- Packing	
SB360L-Z21D-B	SB360G-Z21D-B	DO-201AD	K	Α	Tape Box	
SB360L-SMC-R	SB360G-SMC-R	SMC	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



www.unisonic.com.tw 1 of 3 QW-R601-081.C SB360 DIODE

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

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_R	60	V
Working Peak Reverse Voltage	V_{RWM}	60	V
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectified Output Current (Note 2) T _L =80°C	Ιο	3.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single			
Half Sine-Wave Superimposed on Rated Load	I _{FSM}	80	Α
(JEDEC Method)			
Operating Junction Temperature	TJ	-65~+150	°C
Storage Temperature	T _{STG}	-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.

■ THERMAL DATA

PARAMETER		SYMBOL	RATINGS	UNIT	
lunation to Ambient	SMC	0	95	°C/\\/	
Junction to Ambient	DO-201AD	Θ_{JA}	30	°C/W	

Note: 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.

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

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

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 =3A, T _J =25°C			0.74	V
Lookaga Current	I IpM	V _R =100V, T _A =25°C			500	μΑ
Leakage Current		V _R =100V. T _A =100°C			10	mA

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

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

SB360 DIODE

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