

UTC UNISONIC TECHNOLOGIES CO., LTD

SB360

Preliminary

DIODE

3.0A SCHOTTKY BARRIER RECTIFIER

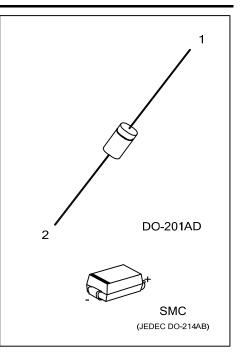
DESCRIPTION

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		Deekere	Pin Assignment		Decking	
Lead Free	Halogen Free	– Package	1	2	Packing	
SB360L-Z21D-R	SB360G-Z21D-R	DO-201AD	K	Α	Tape Reel	
SB360L-SMC-R	SB360G-SMC-R	SMC	K	Α	Tape Reel	
Nata: Din Assignment: A: Anada K: Cathada						

Note: Pin Assignment: A: Anode K: Cathode

SB360L-Z21D-R			
	(1)Packing Type	(1) R: Tape Reel	
	(2)Package Type	(2) Z21D: DO-201AD, SMC: SMC	
	(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free	

MARKING

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DO-201AD	SMC			
→ Cathode Band for uni-directional Only SB360 Cathode Band for uni-directional Only L: Lead Free G: Halogen Free Date Code	Cathode Band for uni-directional Only			

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

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

SYMBOL	RATINGS	UNIT
V _R	60	V
V _{RWM}	60	V
V _{RRM}	60	V
V _{R(RMS)}	42	V
lo	3.0	А
I _{FSM}	80	А
TJ	-65~+150	°C
T _{STG}	-65~+150	°C
	V _R V _{RWM} V _{RRM} V _{R(RMS)} I ₀ I _{FSM} T _J	$\begin{array}{c c c c c c c c c c c c c c c c c c 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.

THERMAL DATA

PARAMETER		SYMBOL	RATINGS	UNIT	
lunction to Ambient	SMC	0	95	°C///	
Junction to Ambient	DO-201AD θ _{JA} 30	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, TJ=25°C			0.74	V
Laskana Current	DM	V _R =100V, T _A =25°C			500	μA
Leakage Current		V _R =100V, T _A =100°C			10	mA

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



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