

UNISONIC TECHNOLOGIES CO., LTD

SB340 Preliminary DIODE

3.0A SCHOTTKY BARRIER RECTIFIER

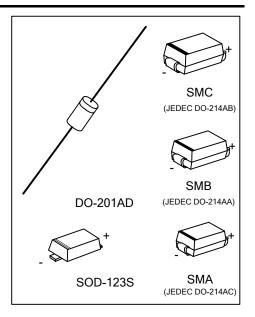
DESCRIPTION

The UTC SB340 is a Schottky Rectifier with high current capacity and low forward voltage.

The UTC SB340 is suitable for polarity protection, low voltage and high frequency inverters free wheeling applications

FEATURES

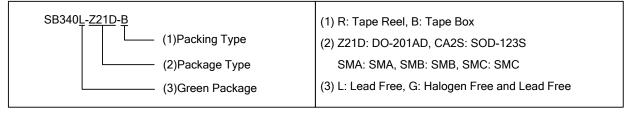
- * High Current Capability
- * Low Forward Voltage



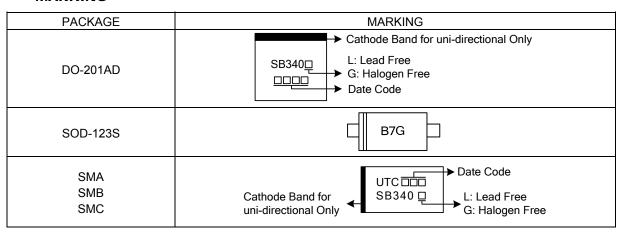
ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1	2	Packing	
-	SB340G-CA2S-R	SOD-123S	K	Α	Tape Reel	
SB340L-SMA-R	SB340G-SMA-R	SMA	K	Α	Tape Reel	
SB340L-SMB-R	SB340G-SMB-R	SMB	K	Α	Tape Reel	
SB340L-SMC-R	SB340G-SMC-R	SMC	K	Α	Tape Reel	
SB340L-Z21D-B	SB340G-Z21D-B	DO-201AD	K	Α	Tape Box	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



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

PARAMETER		SYMBOL	RATINGS	UNIT
DC Blocking Voltage		V_R	40	V
Peak Repetitive Reverse Voltage		V_{RRM}	40	V
Working Peak Reverse Voltage		V_{RWM}	40	V
RMS Reverse Voltage		$V_{R(RMS)}$	28	V
Average Rectified Output Current		lo	3.0	Α
Non-repetitive Peak Forward Single Half-Sine-Wave	Surge Current 8.3 ms			А
Power Dissipation	DO-201AD		3.12	
	SOD-123S	P_{D}	0.62	W
	SMA/SMB/SMC		1.315	
Junction Temperature		T_J	+125	°C
Storage Temperature	·		-65 ~ +125	°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	
	DO-201AD	θ_{JC}	20		
Typical Thermal Resistance	SOD-123S	0	30 (Note)	°C/W	
	SMA/SMB/SMC	θлг	20		

Note: FR-4 PCB, 2 oz Copper. Minimum recommended pad layout.

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

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 2)	$V_{(BR)R}$	I _R =0.50mA	40			V
Forward Voltage Drop (Note 1)	I V⊏M	I _F =3.0A, T _J =25°C			0.50	V
		I _F =3.0A, T _J =100°C			0.45	V
Peak Reverse Current at Rated DC	PМ	V _R =40V, T _J =25°C			500	μΑ
Blocking Voltage (Note 2)		V _R =40V, T _J =100°C			50	mA

Note: Pulse Test: Pulse width ≤ 300µs, Duty cycle ≤ 2%.

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