

UTC UNISONIC TECHNOLOGIES CO., LTD

SB340

DIODE

3.0A SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

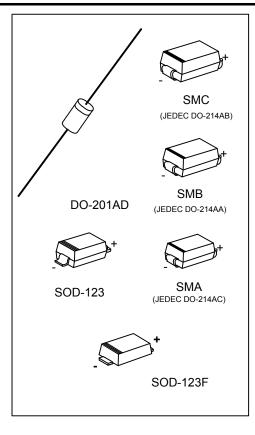
The UTC SB340 is a Schottky Rectifier with high current capacity and low forward voltage.

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		Daakaga	Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1 2		- Packing	
SB340L-CA2-R	SB340G-CA2-R	SOD-123	K	А	Tape Reel	
SB340L-CA2F-R	SB340G-CA2F-R	SOD-123F	K	Α	Tape Reel	
SB340L-SMA-R	SB340G-SMA-R	SMA	K	А	Tape Reel	
SB340L-SMB-R	SB340G-SMB-R	SMB	K	Α	Tape Reel	
SB340L-SMC-R	SB340G-SMC-R	SMC	K	А	Tape Reel	
SB340L-Z21D-B	SB340G-Z21D-B	DO-201AD	K	А	Tape Box	
Note: Pin Assignment: A: Anode K: Cathode						
SB340G-CA2-R		(1) R: Tape Reel,	•			

(1)Packing Type	(2) CA2: SOD-123, CA2F: SOD-123F, CA2S: SOD-123S
(2)Package Type	SMA: SMA, SMB: SMB, SMC: SMC
(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

MARKING

PACKAGE	MARKING			
DO-201AD	 Cathode Band for uni-directional Only SB340 L: Lead Free G: Halogen Free Date Code 			
SOD-123 SOD-123F	B7□ L: Lead Free → G: Halogen Free			
SMA SMB SMC	Cathode Band for uni-directional Only			



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

PARAMETER		SYMBOL	RATINGS	UNIT
DC Blocking Voltage		V _R	40	V
Peak Repetitive Reverse Volta	age	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	А
on-repetitive Peak Forward Surge Current 8.3 ms ngle Half-Sine-Wave		I _{FSM}	80	А
	DO-201AD		3.12	
Power Dissipation	SOD-123 SOD-123F	P _D	0.62	W
	SMA/SMB/SMC		1.315	
Junction Temperature		TJ	+125	°C
Storage Temperature		T _{STG}	-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
Typical Thermal Resistance	DO-201AD	θις	20	
	SOD-123	θ _{JL}	20 (Nieto)	°C 1.11
	SOD-123F		30 (Note)	°C/W
	SMA/SMB/SMC		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)	VrM	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	I	V _R =40V, T _J =25°C			500	μA
Blocking Voltage (Note 2)	IRM	V _R =40V, T _J =100°C			50	mA

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



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