



# SB340LS

## LOW VF SCHOTTKY RECTIFIER

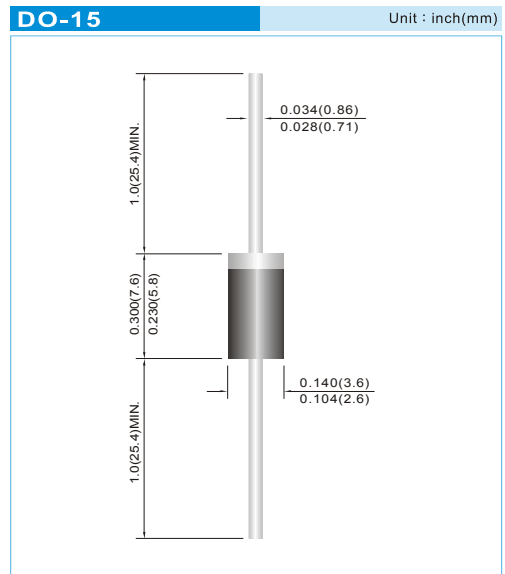
**VOLTAGE** 40 Volt **CURRENT** 3 Ampere

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in compliance with EU RoHS 2.0

### MECHANICAL DATA

- Case: DO-15 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.014 ounces, 0.4 grams



### MAXIMUM RATINGS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	40	V
Maximum rms voltage	V <sub>RMS</sub>	28	V
Maximum dc blocking voltage	V <sub>R</sub>	40	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	3	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	150	A
Typical thermal resistance (Note 1)	R <sub>θJA</sub> R <sub>θJC</sub>	80 38	°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to + 150	°C
Storage temperature range	T <sub>STG</sub>	-55 to + 150	°C

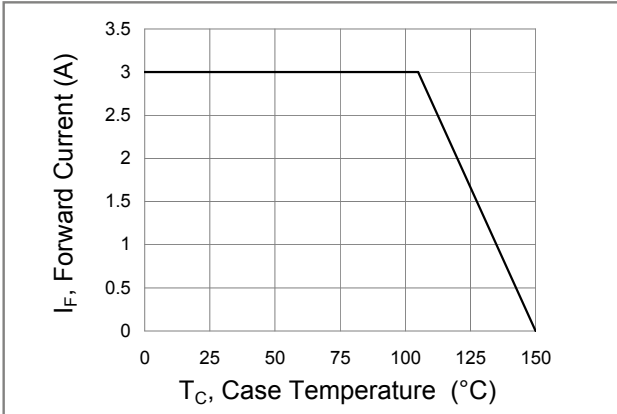
Note : 1. Mounted on 48cm<sup>2</sup> FR-4 PCB.

### ELECTRICAL CHARACTERISTICS(T<sub>A</sub>=25°C unless otherwise noted)

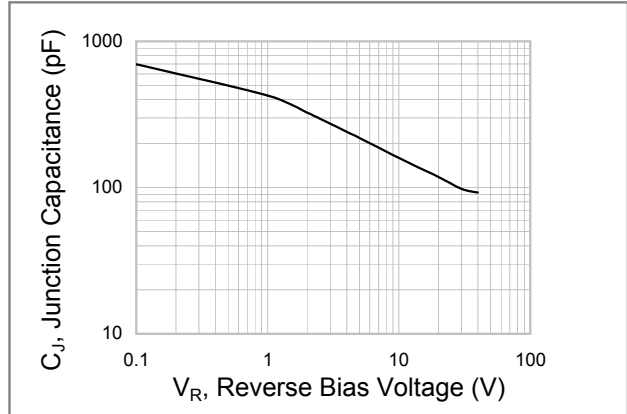
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V <sub>BR</sub>	I <sub>R</sub> =1mA	40	-	-	V
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =0.1A	-	0.29	-	V
		I <sub>F</sub> =1.5A	-	0.39	-	
		I <sub>F</sub> =3A	-	0.44	0.46	
		I <sub>F</sub> =0.1A	-	0.14	-	V
		I <sub>F</sub> =1.5A	-	0.28	-	
		I <sub>F</sub> =3A	-	0.36	-	
Reverse current	I <sub>R</sub>	V <sub>R</sub> =32V	-	15	-	μA
		V <sub>R</sub> =40V	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	- -	- 15	60 -



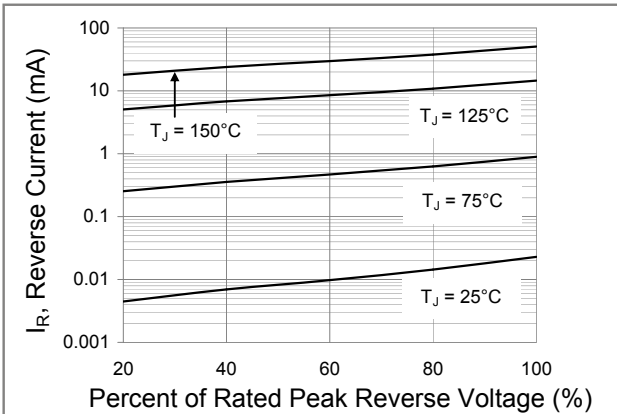
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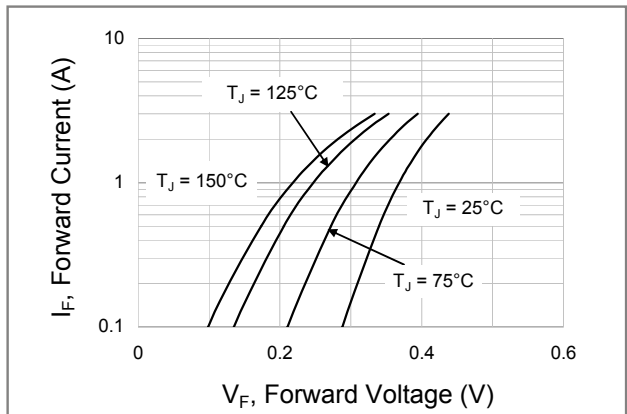
**Fig.1 Forward Current Derating Curve**



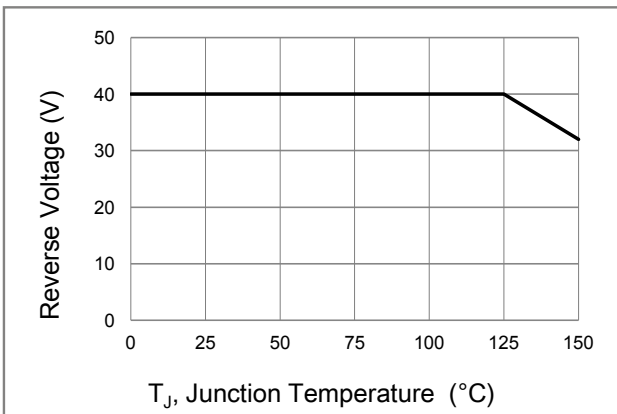
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**



**Fig.5 Operating Temperature Derating Curve**



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## Part No\_packing code\_Version

- SB340LS\_AY\_00001
- SB340LS\_AY\_10001
- SB340LS\_B0\_00001
- SB340LS\_B0\_10001
- SB340LS\_R2\_00001
- SB340LS\_R2\_10001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> -5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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