



SB340LS

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 40 Volts **CURRENT** 3 Amperes

FEATURES

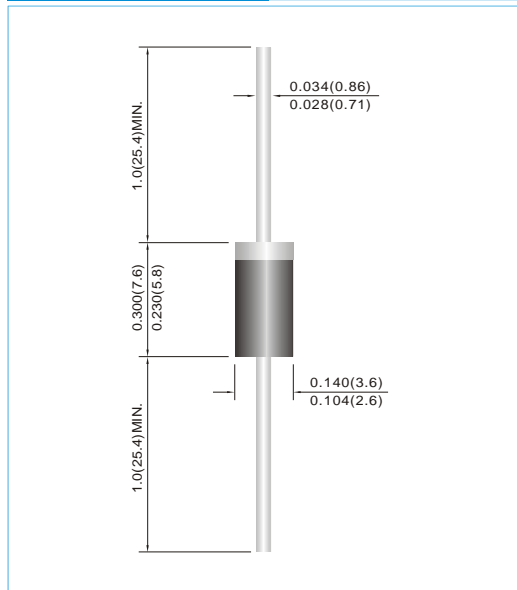
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228.
- Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: DO-15 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.015 ounces, 0.4grams

DO-15

Unit : inch(mm)



MAXIMUM RATINGS(T_A=25°C unless otherwise noted)

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

Note : 1. Mounted on 48cm² FR-4 PCB.

ELECTRICAL CHARACTERISTICS(T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I _R =1mA	40	-	-	V
Instantaneous forward voltage	V _F	I _F =0.1A I _F =1.5A I _F =3A	-	0.29 0.39 0.44	- - 0.46	V
		I _F =0.1A I _F =1.5A I _F =3A	-	0.14 0.28 0.36	- - -	V
Reverse current	I _R	V _R =32V	-	15	-	μA
		V _R =40V	-	- 15	60 -	μA mA



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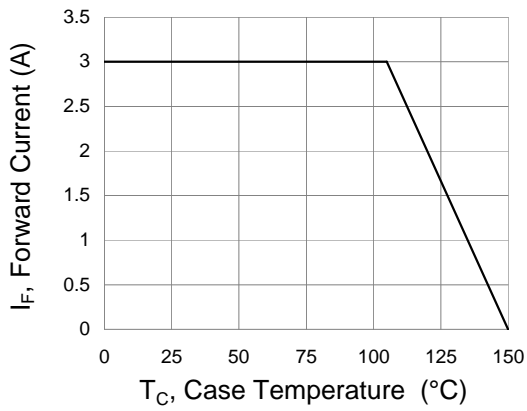


Fig.1 Forward Current Derating Curve

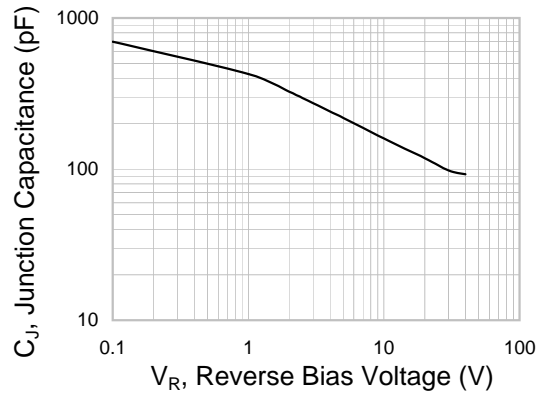


Fig.2 Typical Junction Capacitance

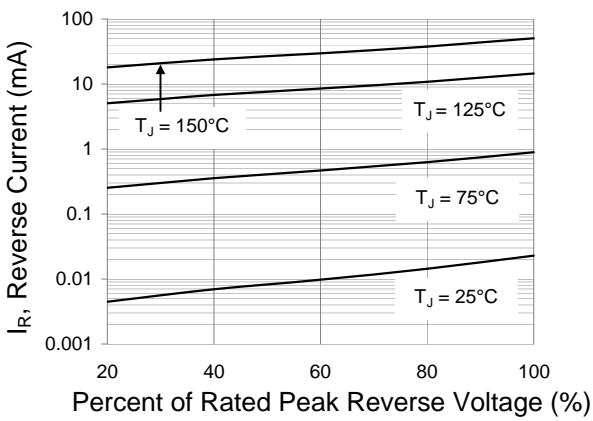


Fig.3 Typical Reverse Characteristics

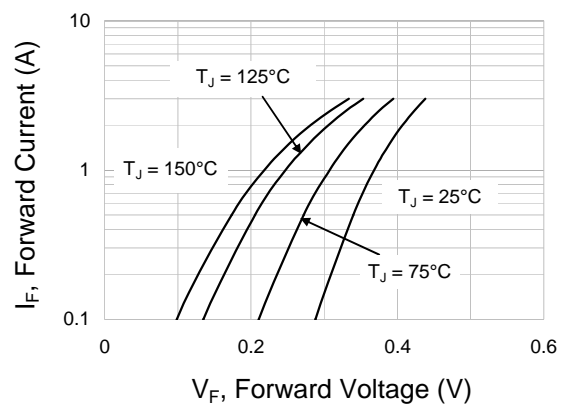


Fig.4 Typical Forward Characteristics



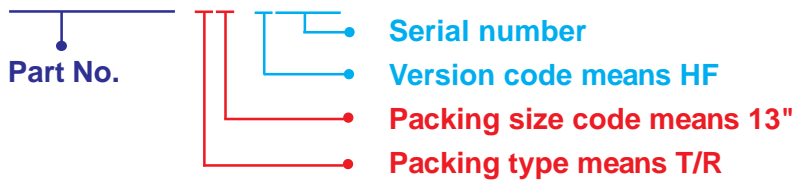
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Part No_packing code_Version

- 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 XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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