



SB340LS

LOW VF SCHOTTKY RECTIFIER

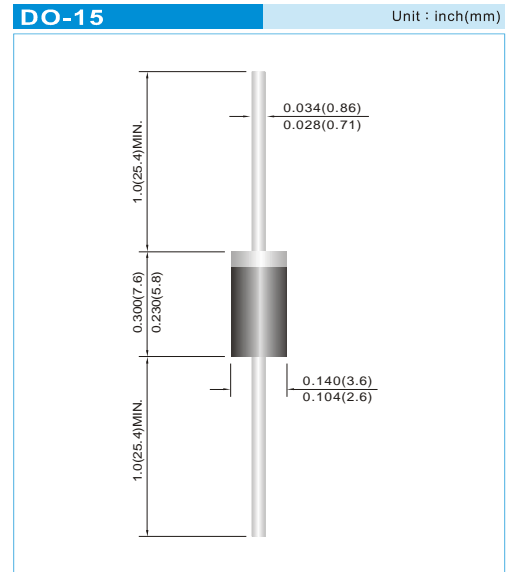
VOLTAGE 40 Volt **CURRENT** 3 Ampere

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 2011/65/EU directive

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($T_A=25^{\circ}\text{C}$ 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)	$R_{\theta JA}$ $R_{\theta JC}$	80 38	$^{\circ}\text{C}/\text{W}$
Operating junction temperature range	T_J	-55 to + 150	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to + 150	$^{\circ}\text{C}$

Note : 1. Mounted on 48cm² FR-4 PCB.

ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Breakdown voltage	V_{BR}	$I_R=1\text{mA}$	40	-	-	V	
Instantaneous forward voltage	V_F	$T_J=25^{\circ}\text{C}$	$I_F=0.1\text{A}$	-	0.29	-	V
			$I_F=1.5\text{A}$	-	0.39	-	
			$I_F=3\text{A}$	-	0.44	0.46	
		$T_J=125^{\circ}\text{C}$	$I_F=0.1\text{A}$	-	0.14	-	V
			$I_F=1.5\text{A}$	-	0.28	-	
			$I_F=3\text{A}$	-	0.36	-	
Reverse current	I_R	$V_R=32\text{V}$	-	15	-	μA	
		$V_R=40\text{V}$	$T_J=25^{\circ}\text{C}$ $T_J=125^{\circ}\text{C}$	- -	- 15	60 -	μA mA



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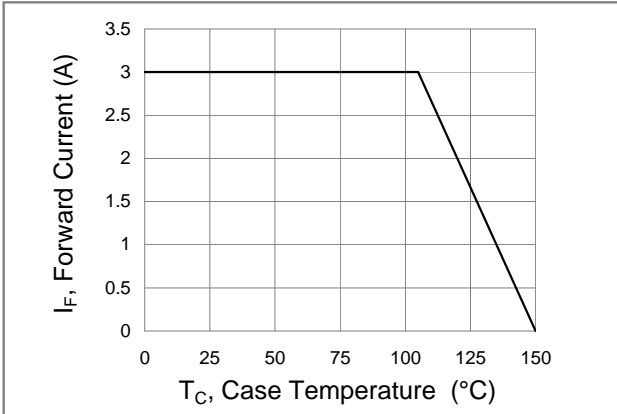


Fig.1 Forward Current Derating Curve

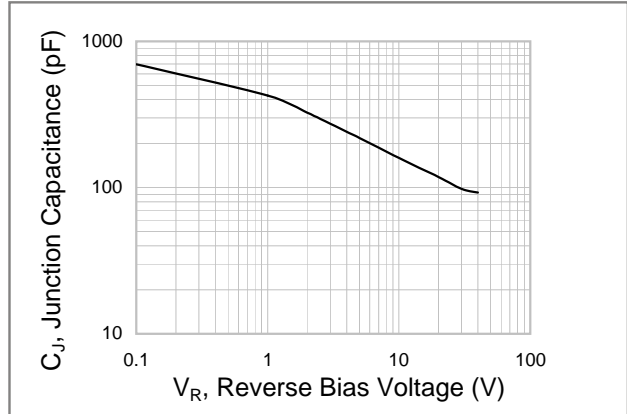


Fig.2 Typical Junction Capacitance

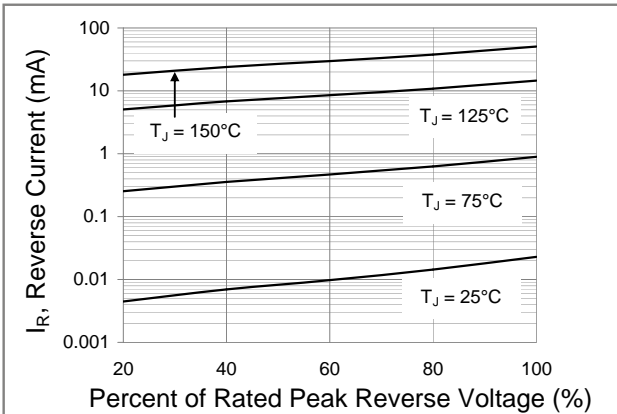


Fig.3 Typical Reverse Characteristics

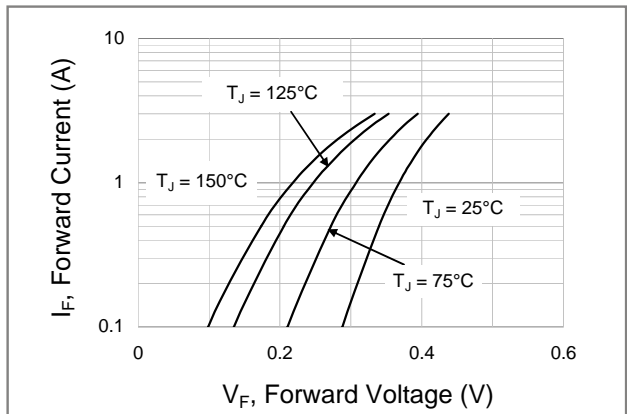


Fig.4 Typical Forward Characteristics

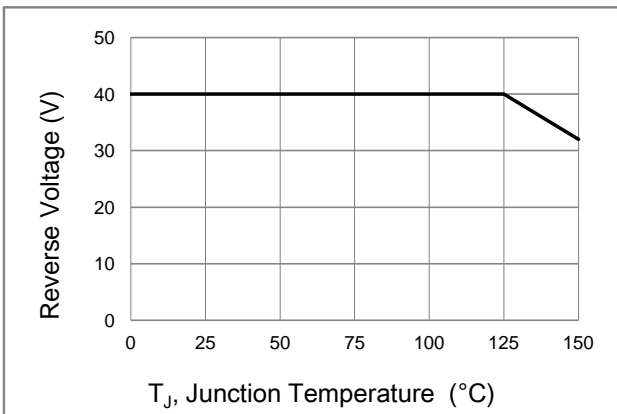


Fig.5 Operating Temperature Derating Curve



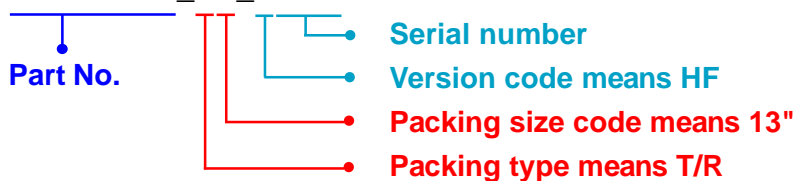
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Part No_packing code_Version

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 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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