



SB240LES

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 40 Volts **CURRENT** 2.0 Amperes

DO-41

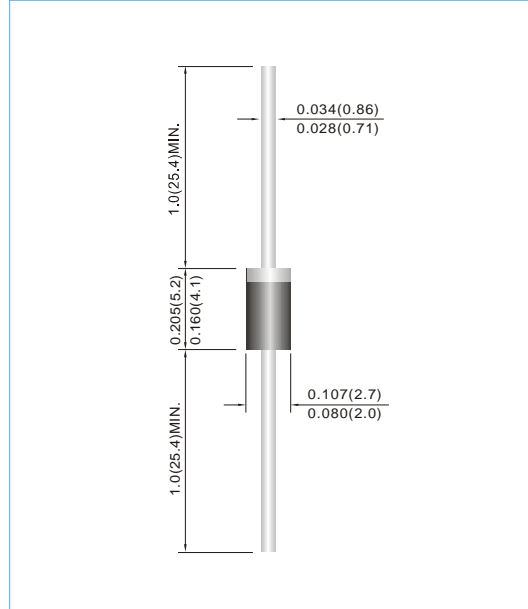
Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage,high frequency inverters ,free wheeling , and polarity protection applications.
- IEC61000-4-2 ESD 15KV air, 8KV Contact Compliance
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: DO-41 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750,Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.011 ounces, 0.336 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 average forward rectified current	$I_{F(AV)}$	2	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Typical thermal resistance	$R_{\theta JA}$ $R_{\theta JL}$	70 26	$^{\circ}\text{C}/\text{W}$
Operating junction temperature range	T_J	-55 to + 150	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to + 150	$^{\circ}\text{C}$

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Breakdown voltage	V_{BR}	$I_R=0.5\text{mA}$	40	-	-	V	
Instantaneous forward voltage	V_F	$I_F=1\text{A}$ $I_F=2\text{A}$	$T_J=25^{\circ}\text{C}$	-	0.37	-	V
				-	0.41	0.45	V
		$I_F=1\text{A}$ $I_F=2\text{A}$	$T_J=125^{\circ}\text{C}$	-	0.25	-	V
				-	0.30	-	V
Reverse current	I_R	$V_R=32\text{V}$	-	30	-	μA	
		$V_R=40\text{V}$	$T_A=25^{\circ}\text{C}$	-	-	200	μA
			$T_A=125^{\circ}\text{C}$	-	33	-	mA



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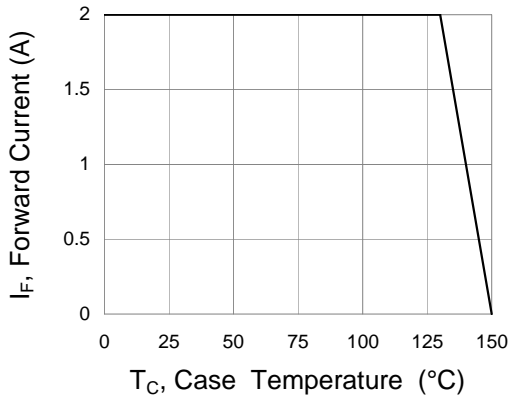


Fig.1 Forward Current Derating Curve

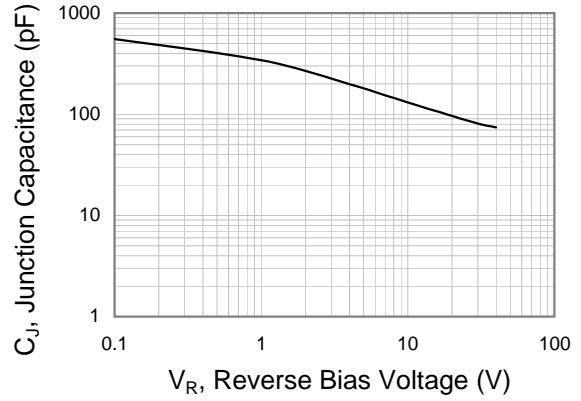


Fig.2 Typical Junction Capacitance

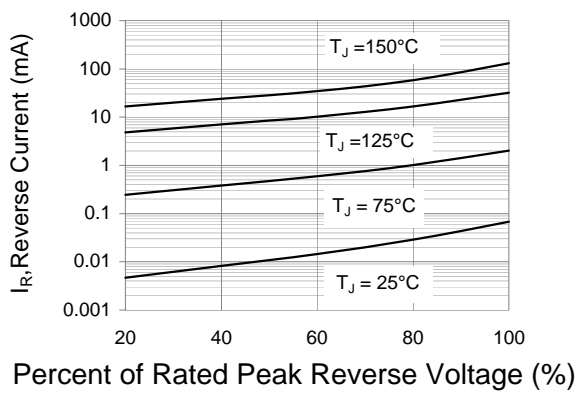


Fig.3 Typical Reverse Characteristics

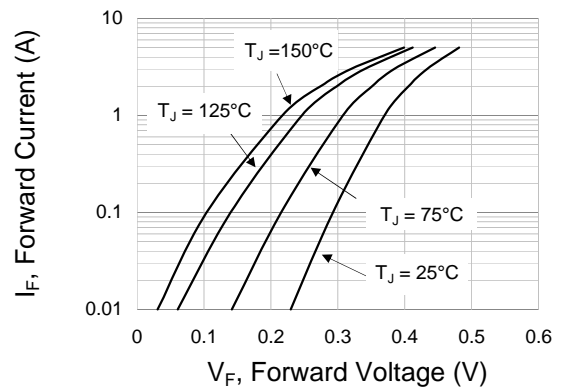


Fig.4 Typical Forward Characteristics



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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
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

SB240LES_AY_10001

SB240LES_B0_00001

SB240LES_B0_10001