



BR515L

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 150 Volts **CURRENT** 5 Amperes

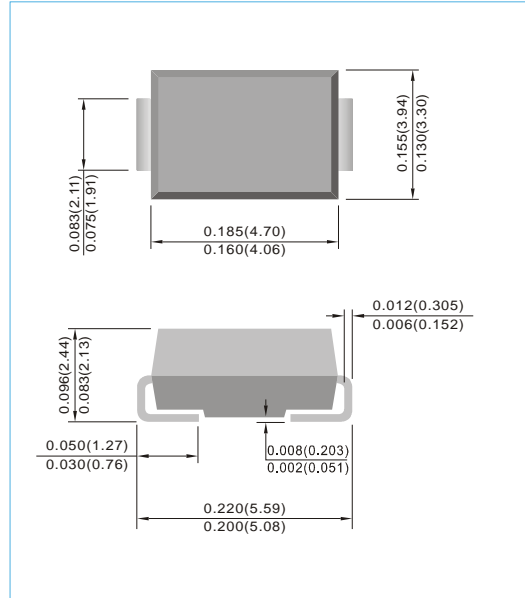
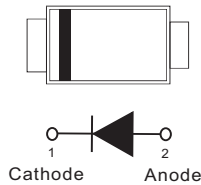
SMB / DO-214AA Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Metal to silicon rectifier. majority carrier conduction
- Low power loss, high efficiency
- High surge capacity
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case : JEDEC DO-214AA molded plastic
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Standard packaging : 12mm tape (EIA-481)
- Weight : 0.0032 ounce, 0.092 gram



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	150	V
Maximum RMS Voltage	V _{RMS}	105	V
Maximum DC Blocking Voltage	V _R	150	V
Maximum Average Rectified Output Current	I _{F(AV)}	5	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100	A
Typical Thermal Resistance	R _{θJL} R _{θJA}	15 135	°C/W
Operating Junction Temperature Range And Storage Temperature Range	T _J ,T _{STG}	-55 to + 150	°C

NOTES :

- 1.Mounted on an FR4 PCB, single-sided copper, with 100cm² copper pad area
- 2.Mounted on an FR4 PCB, single-sided copper, mini pad.



BR515L

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I _R =0.5mA T _A =25°C	150	-	-	V
Instantaneous forward voltage	V _F	I _F =1A T _A =25°C	-	0.63	-	V
		I _F =3A T _A =25°C	-	0.76	-	V
		I _F =5A T _A =25°C	-	0.81	0.86	V
Reverse current	I _R	I _F =1A T _A =125°C	-	0.5	-	V
		I _F =3A T _A =125°C	-	0.61	-	V
		I _F =5A T _A =125°C	-	0.67	-	V
Reverse current	I _R	V _R =105V T _A =25°C	-	0.5	-	μA
		V _R =150V T _A =25°C	-	-	15	μA
Reverse current	I _R	V _R =105V T _A =125°C	-	-	-	μA
		V _R =150V T _A =125°C	-	2	-	mA

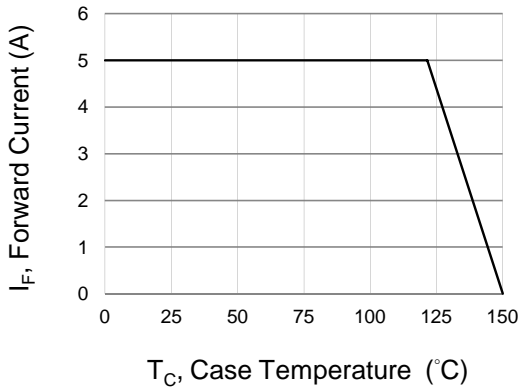


Fig.1 Forward Current Derating Curve

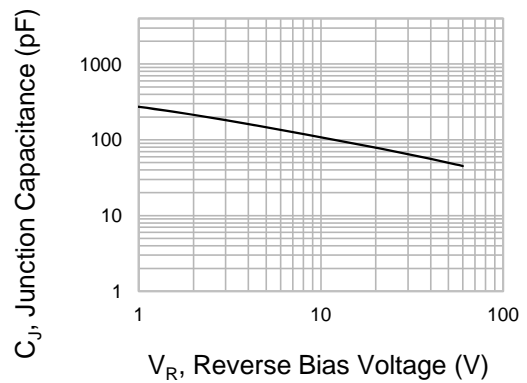


Fig.2 Typical Junction Capacitance

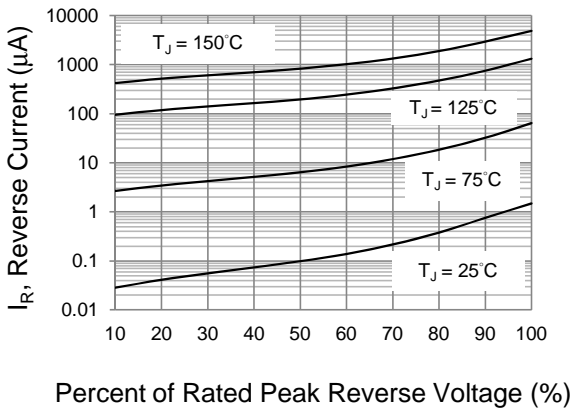


Fig.3 Typical Reverse Characteristics

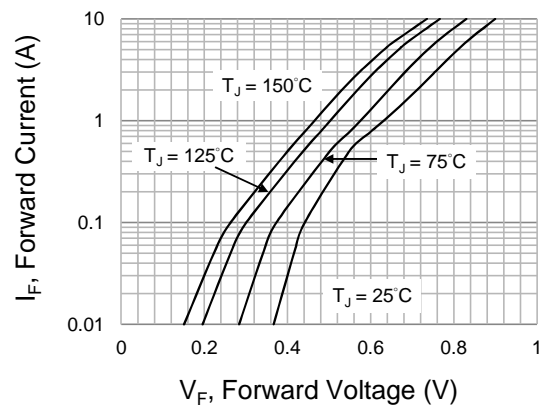
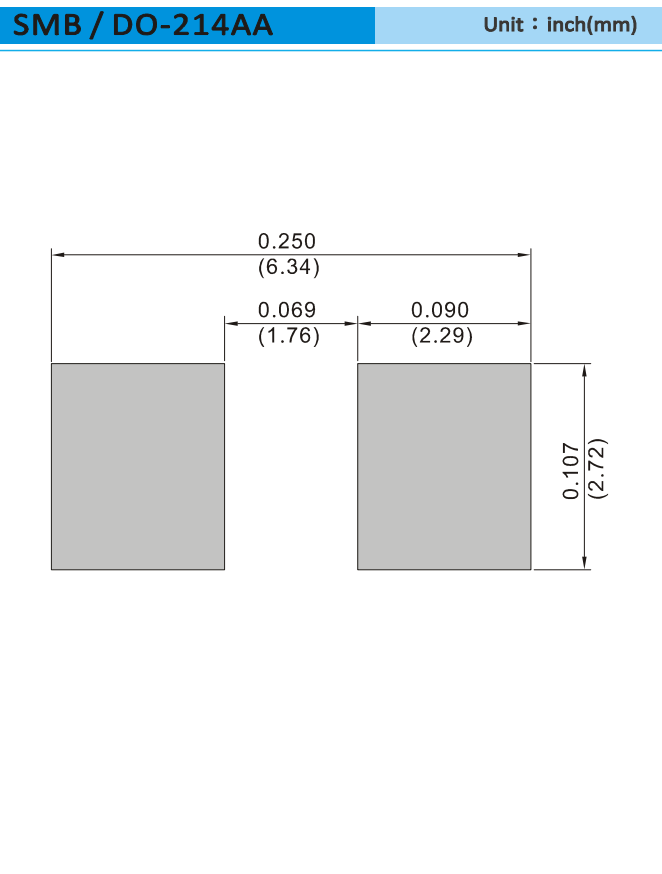


Fig.4 Typical Forward Characteristics



BR515L

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 3K per 13" plastic Reel
T/R - 0.5K per 7" plastic Reel



BR515L

Part No_packing code_Version

BR515L_R1_00001

BR515L_R2_00001

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			



BR515L

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