



# BR515L

## LOW VF SCHOTTKY RECTIFIER

**VOLTAGE** 150 Volt **CURRENT** 5 Ampere

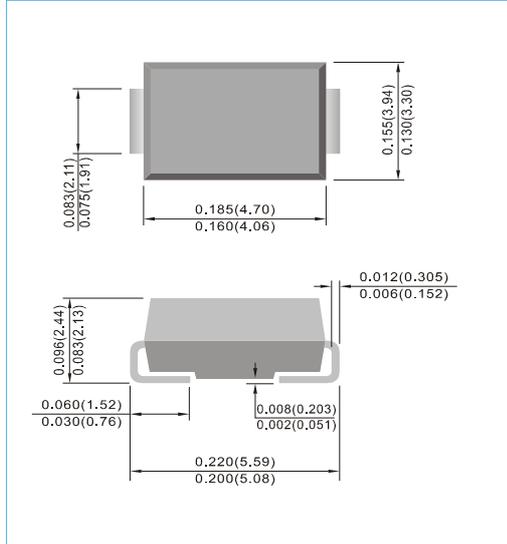
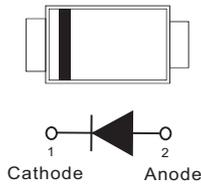
**SMB / DO-214AA** Unit : inch(mm)

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Low power loss, high efficiency
- High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### 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<sub>A</sub>=25°C unless otherwise noted)

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

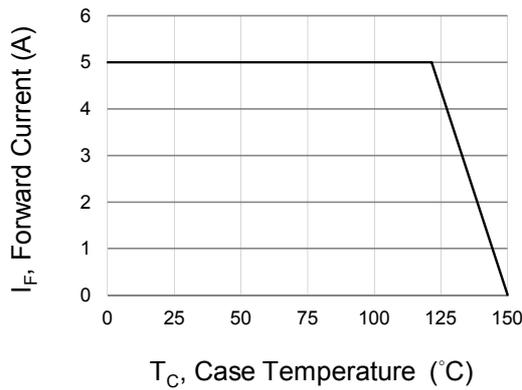
NOTES:1.Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area  
2.Mounted on a FR4 PCB, single-sided copper, mini pad.



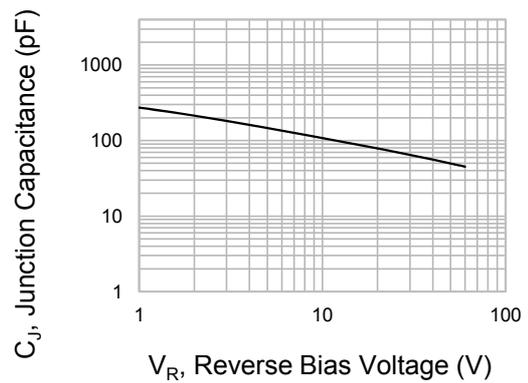
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## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

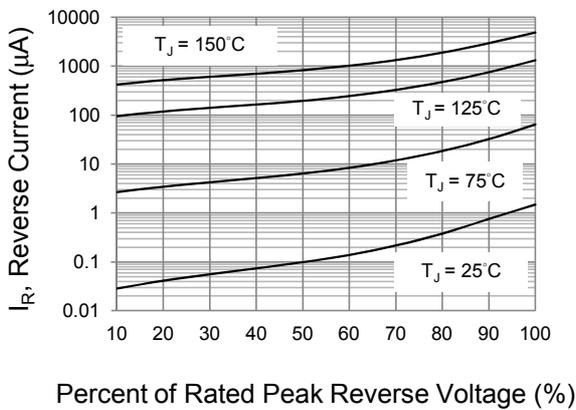
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V <sub>BR</sub>	I <sub>R</sub> =0.5mA T <sub>A</sub> =25°C	150	-	-	V
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =1A T <sub>A</sub> =25°C	-	0.63	-	V
		I <sub>F</sub> =3A T <sub>A</sub> =25°C	-	0.76	-	V
		I <sub>F</sub> =5A T <sub>A</sub> =25°C	-	0.81	0.86	V
Reverse current	I <sub>R</sub>	I <sub>F</sub> =1A T <sub>A</sub> =125°C	-	0.5	-	V
		I <sub>F</sub> =3A T <sub>A</sub> =125°C	-	0.61	-	V
		I <sub>F</sub> =5A T <sub>A</sub> =125°C	-	0.67	-	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =105V T <sub>A</sub> =25°C	-	0.5	-	μA
		V <sub>R</sub> =150V T <sub>A</sub> =25°C T <sub>A</sub> =125°C	-	-	15	μA mA



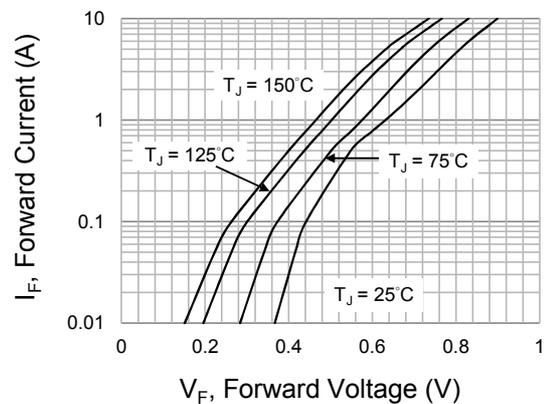
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**

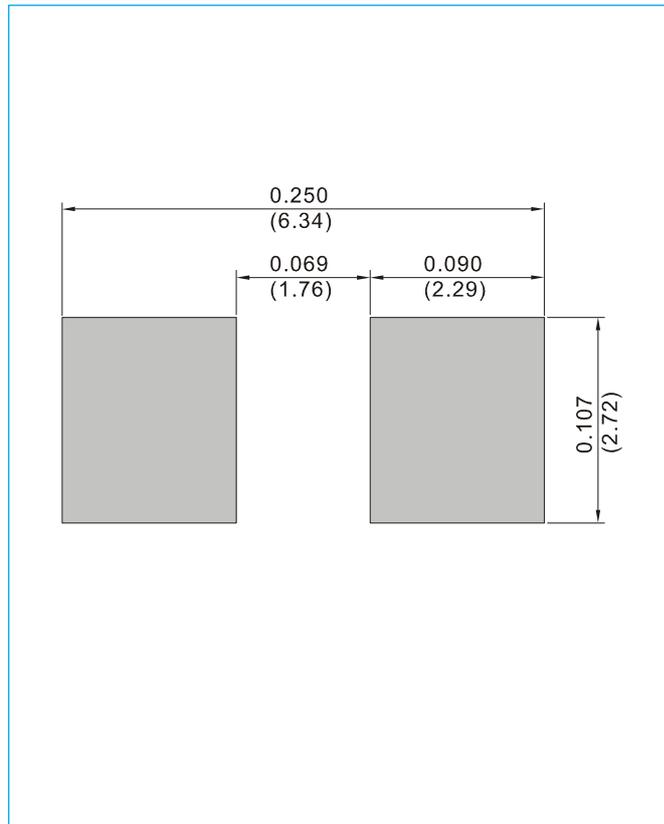


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## MOUNTING PAD LAYOUT

SMB / DO-214AA

Unit : inch(mm)



## ORDER INFORMATION

- Packing information
  - T/R - 3K per 13" plastic Reel
  - T/R - 0.8K per 7" plastic Reel



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## Part No\_packing code\_Version

BR515L\_R1\_00001

BR515L\_R2\_00001

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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