



ULTRA LOW VF SCHOTTKY RECTIFIER

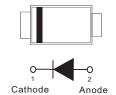
VOLTAGE 100 Volt CURRENT 3 Ampere

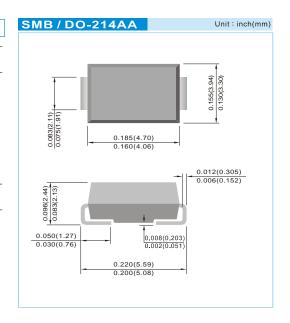
FEATURES

- 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 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(Ta=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	100	V
Maximum RMS Voltage		VRMS	70	V
Maximum DC Blocking Voltage		VR	100	V
Maximum Average Rectified Output Current		l F(AV)	3	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		İFSM	120	Α
Typical Thermal Resistance	(Note 1) (Note 2)	Røjl Røja	23 135	°C/W
Operating Junction Temperature Range And Storage Temperature Range		ТЈ,Тѕтс	-55 to + 150	°C

NOTES:1.Mounted on a FR4 PCB, single-sided copper, with 10cm*10cm copper pad area 2.Mounted on a FR4 PCB, single-sided copper, mini pad.





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	Ta=25°C	100	-	-	٧
Instantaneous forward voltage	VF	I F=1A I F=3A	T _A =25°C	-	0.57 0.71	- 0.74	V
		I F=1A I F=3A	T _A =125°C	-	0.47 0.57	-	V
Davis and a surrent	1-	VR=80V	T _A =25°C	-	0.2	-	μΑ
Reverse current	IR	VR=100V	T _A =25°C T _A =125°C	-	- 0.8	50 -	μA mA

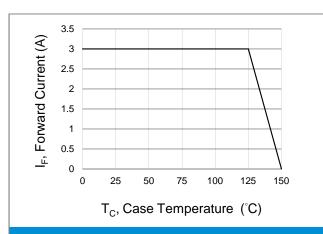


Fig.1 Forward Current Derating Curve

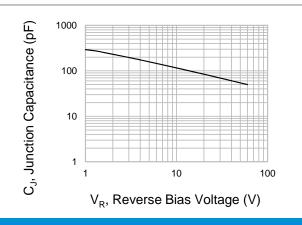


Fig.2 Typical Junction Capacitance

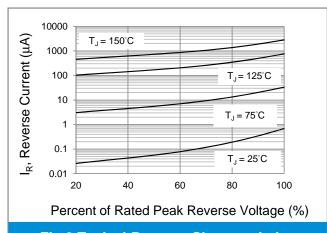


Fig.3 Typical Reverse Characteristics

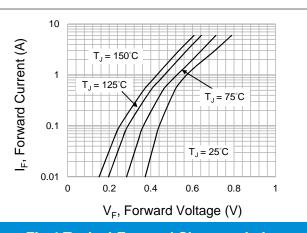
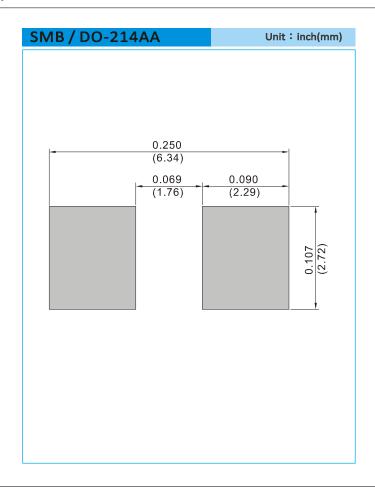


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5K per 7" plastic Reel





Part No_packing code_Version

BR310V_R1_00001 BR310V_R2_00001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF Packing size code means 13" Packing type means T/R

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)	В	13"	2			
Tube Packing (T/P)	Т	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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