



LOW VF SCHOTTKY RECTIFIER

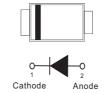
VOLTAGE 40 Volt CURRENT 5 Ampere

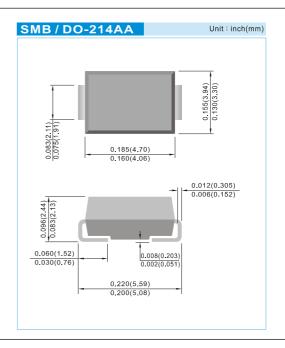
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- 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: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.0032 ounces, 0.092 grams





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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	VRRM	40	V
Maximum rms voltage	VRMS	28	V
Maximum dc blocking voltage	VR	40	V
Maximum average forward rectified current	I F(AV)	5	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	IFSM	100	А
Typical thermal resistance (Note 1)	Røja Røjl	40 10	°C/W
Operating junction temperature range	TJ	-55 to + 150	°C
Storage temperature range	Тѕтс	-55 to + 150	°C

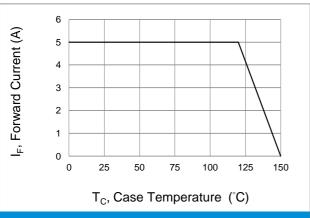
ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=1mA		40	-	-	V
Instantaneous forward voltage	VF	F=1A F=3A F=5A F=1A F=3A F=5A	T _J =25°C	- - - -	0.34 0.40 0.44 0.21 0.30 0.36	- 0.46 - -	V
Reverse current	l R	V _R =32V V _R =40V	TJ=25°C TJ=125°C	- - -	21 - 25	100	μA μA mA

Note: 1. Mounted on 48cm² FR-4 PCB.





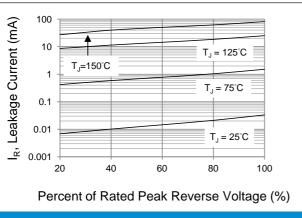


C_J, Junction Capacitance (pF) 1000 100 10 0.1 10 V_R, Reverse Bias Voltage (V)

10000

Fig.1 Forward Current Derating Curve

Fig.2 Typical Junction Capacitance



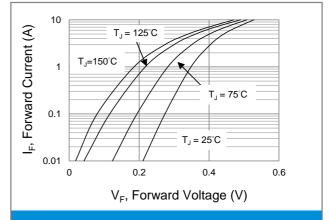


Fig.3 Typical Reverse Characteristics

Fig.4 Typical Forward Characteristics

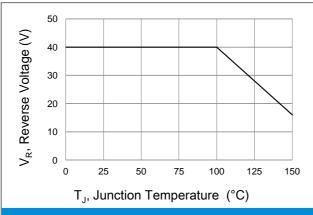
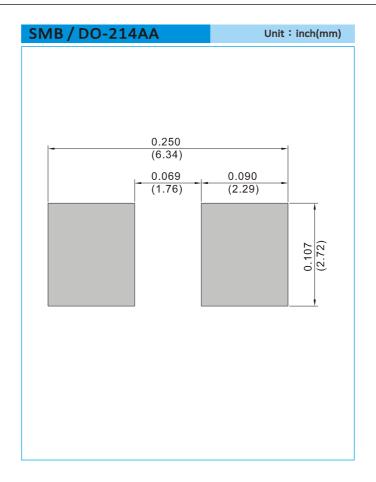


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

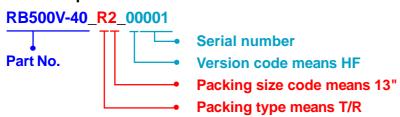




Part No_packing code_Version

SK54BL_R1_00001 SK54BL_R2_00001

For example:



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)	Α	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	Х			
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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