



LOW VF SCHOTTKY BARRIER RECTIFIER

VOLTAGE 45 Volts CURRENT 2 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Low profile package
- · Built-in strain relief
- · Metal to silicon rectifier. majority carrier conduction
- · Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

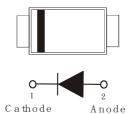
MECHANICAL DATA

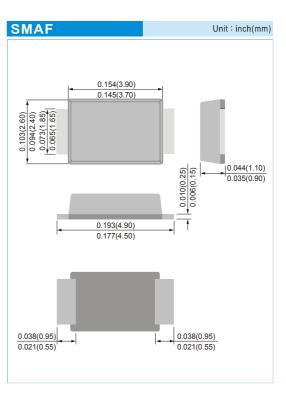
Case: SMAF, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end Weight: 0.0011 ounces, 0.0328 grams

Marking: SR24ALF





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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	45	٧
Maximum RMS Voltage		VRMS	31.5	V
Maximum DC Blocking Voltage		VR	45	V
Average Rectified Output Current		I F(AV)	2	А
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	80	А
Typical Thermal Resistance, Junction to Lead	(Note 1)	Real	20	°CW
Operating Junction Temperature and Storage Temperature Range		TJ,TSTG	-55 to + 150	°C

NOTES:

1.Mounted on 48cm² FR-4 PCB.





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I R=1mA	T _A =25°C	45	-	-	V
	.,	I F=1A I F=1.5A I F=2A	T _A =25°C	- - -	0.40 0.42 0.45	- - 0.47	V
Instantaneous forward voltage	VF	I F=1A I F=1.5A I F=2A	Ta=125°C	- - -	0.28 0.32 0.36	- - -	V
_		VR=36V	Ta=25°C	-	9.2	-	μА
Reverse current	IR	V _R =45V	T _A =25°C T _A =125°C	-	- 12	100 -	μA mA

RATING AND CHARACTERISTIC CURVES

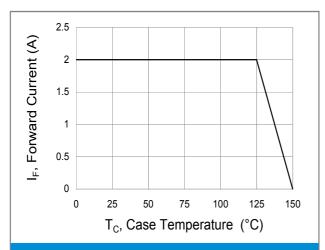


Fig.1 Forward Current Derating Curve

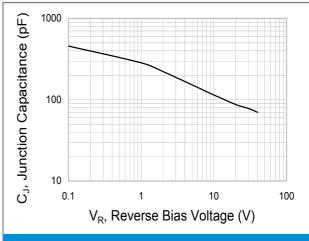


Fig.2 Typical Junction Capacitance

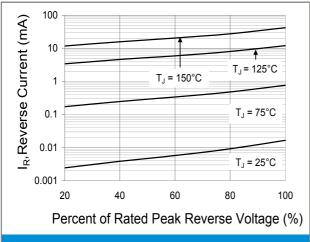


Fig.3 Typical Reverse Characteristics

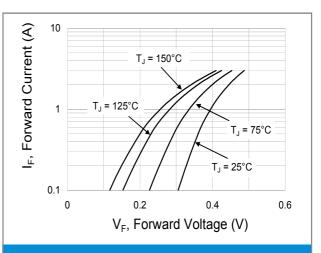
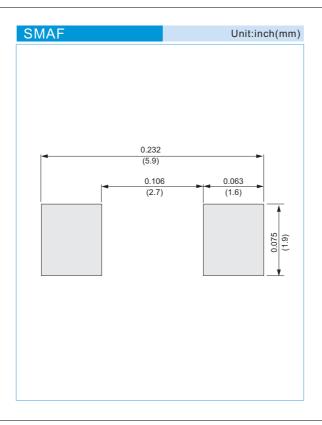


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

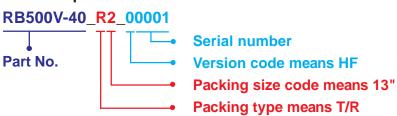




Part No_packing code_Version

SR24ALF_R1_00001 SR24ALF_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	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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