

ULTRA LOW VF SCHOTTKY RECTIFIER

CURRENT

VOLTAGE

FEATURES

- Ideal for automated placement
- Ultra Low forward voltage drop, low power losses

45 Volts

- · High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case : SMAF Molded Plastic

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

Polarity : Color band denotes cathode end

Standard packaging : 12mm tape (EIA-481)

Weight : 0.0011 ounces, 0.0328 grams

Marking : SXM54ALF



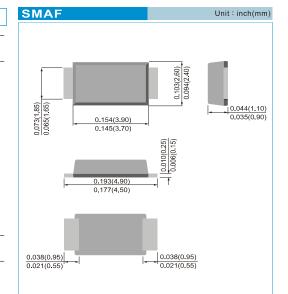
5 Amperes

1 2 Cathode Anode

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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage			45	V
Maximum RMS Voltage			32	V
Maximum DC Blocking Voltage			45	V
Maximum Average Rectified Output Current			5	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)			150	А
Typical Junction Capacitance (VR=4V, f=1MHz)			220	pF
Typical Thermal Resistance	(Note 1) (Note 2)	Rojl Roja	20 150	°C/W
Operating Junction Temperature Range And Storage Temperature Range		Тј,Тѕтс	-55 to + 150	°C

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

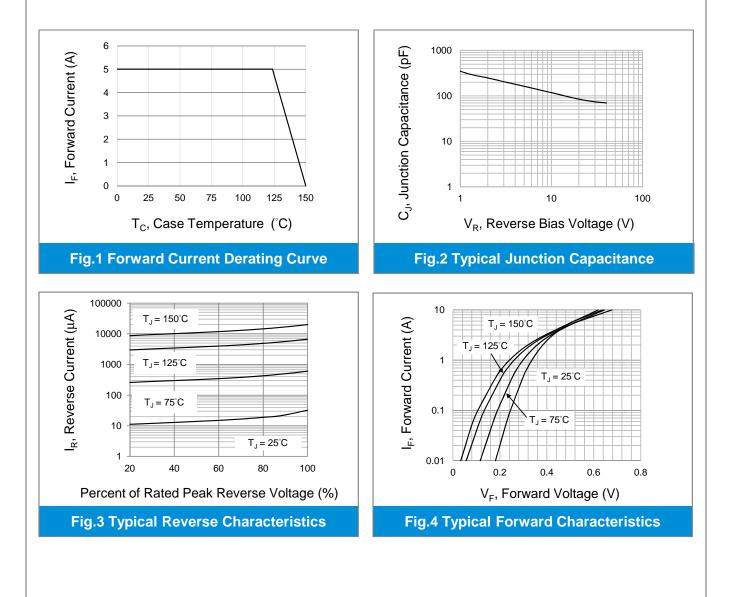




SXM54ALF

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	Vbr	I R=0.5mA		45	-	-	V
Instantaneous forward voltage	VF	F=1A F=2A F=5A	Tj=25°C	- - -	0.34 0.38 0.48	- - 0.54	V
		I F=1A I F=2A I F=5A	TJ=125°C	- -	0.26 0.33 0.5		V
Reverse current I R		Vr=36V		-	20	-	μΑ
	IR	VR=45V	TJ=25°C TJ=125°C	-	- 7	210 -	μA mA

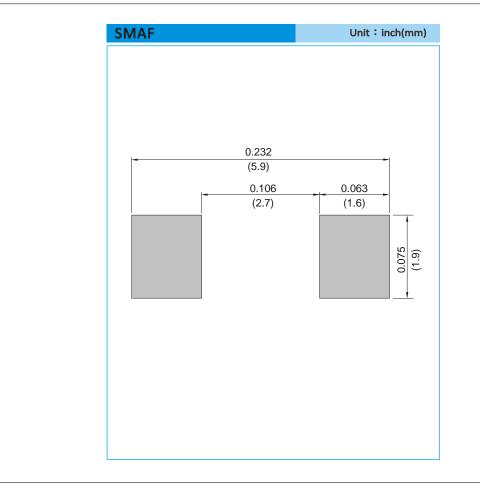


July 17,2013-REV.00



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MOUNTING PAD LAYOUT



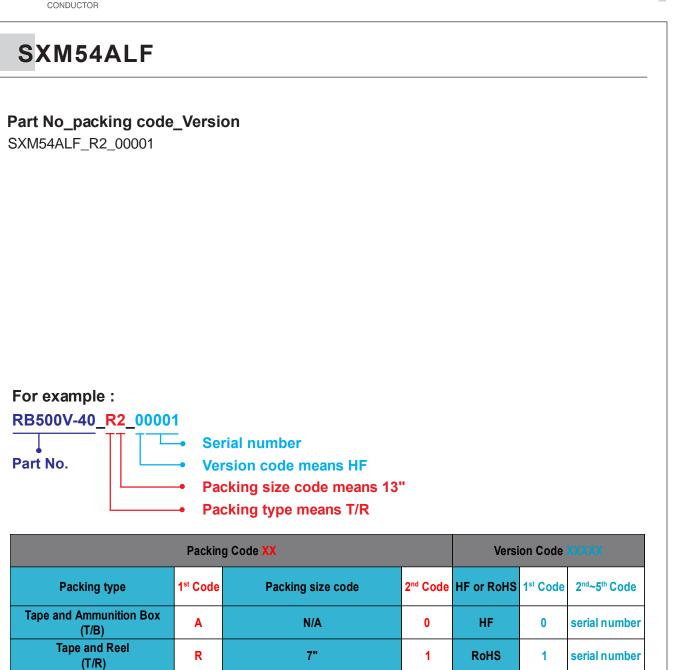
ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

2

Χ

Υ

U

D

Bulk Packing

(B/P) Tube Packing

(T/P) Tape and Reel (Right Oriented)

(TRR)

Tape and Reel (Left Oriented)

(TRL)

FORMING

В

т

S

L

F





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