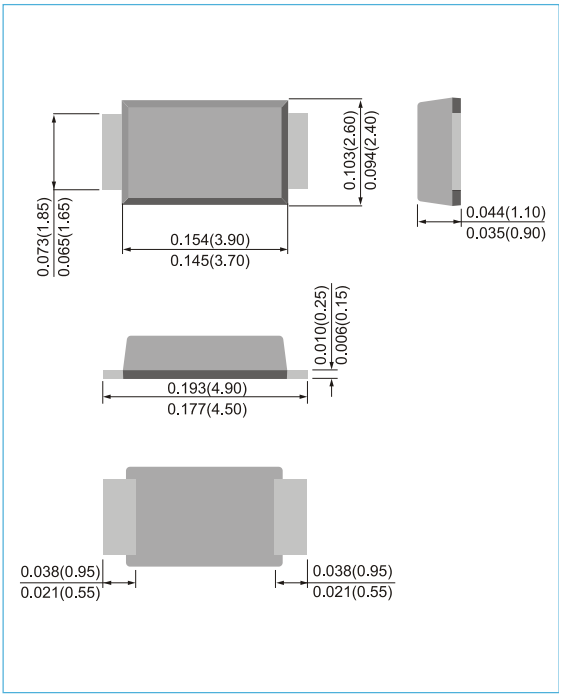
SXM34AVF

ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

Voltage	45 V	Current	3 A

SMAF Unit : inch(mm)

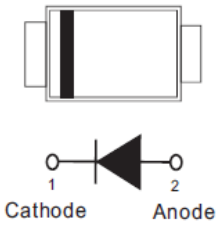


Features

- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

Mechanical Data

- Case: SMAF 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: 0.0011 ounces, 0.0328 grams
- Marking: Part number



Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	45	V
Maximum rms voltage		V_{RMS}	32	V
Maximum dc blocking voltage		V_R	45	V
Maximum average forward rectified current		$I_{F(AV)}$	3	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	150	A
Typical junction capacitance (V_R=4V,f=1MHz)		C_J	220	pF
Typical thermal resistance	(Note 2) (Note 1)	$R_{\theta JL}$ $R_{\theta JA}$	20 150	°C/W
Operating junction temperature range		T_J	-55 to +150	°C
Storage temperature range		T_{STG}	-55 to +150	°C

Note : 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.

SXM34AVF

Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I_R=0.5mA	T_J=25°C	45	-	-	V
Instantaneous forward voltage	V_F	I_F=1A	T_J=25°C	-	0.34	-	V
		I_F=3A		-	0.42	0.47	
		I_F=1A	T_J=125°C	-	0.26	-	V
		I_F=3A		-	0.39	-	
Reverse current	I_R	V_R=36V	T_J=25°C	-	20	-	μA
		V_R=45V	T_J=25°C	-	-	210	μA
			T_J=125°C	-	7	-	mA

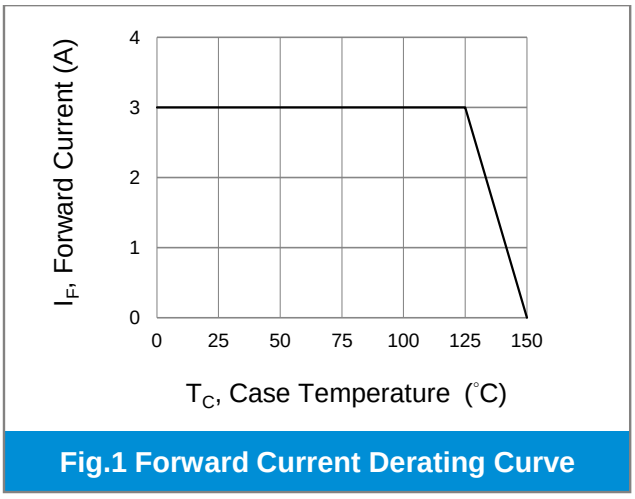


Fig.1 Forward Current Derating Curve

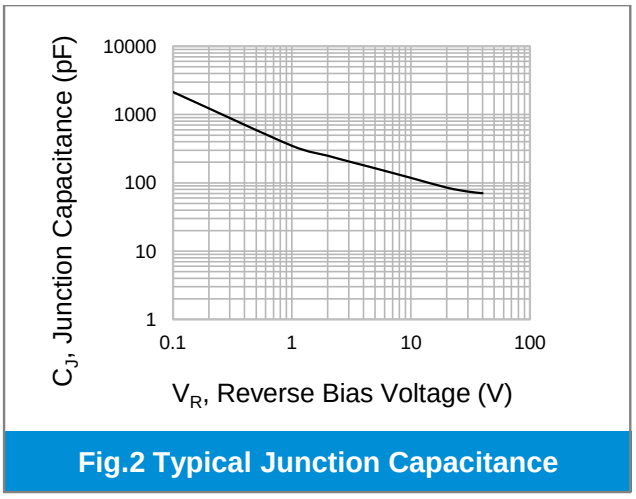


Fig.2 Typical Junction Capacitance

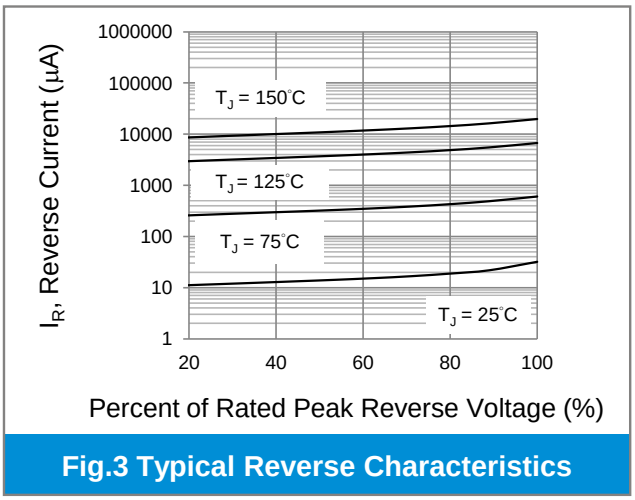


Fig.3 Typical Reverse Characteristics

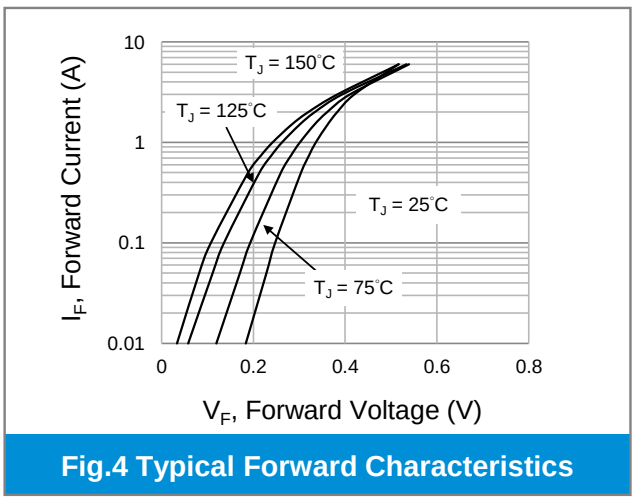
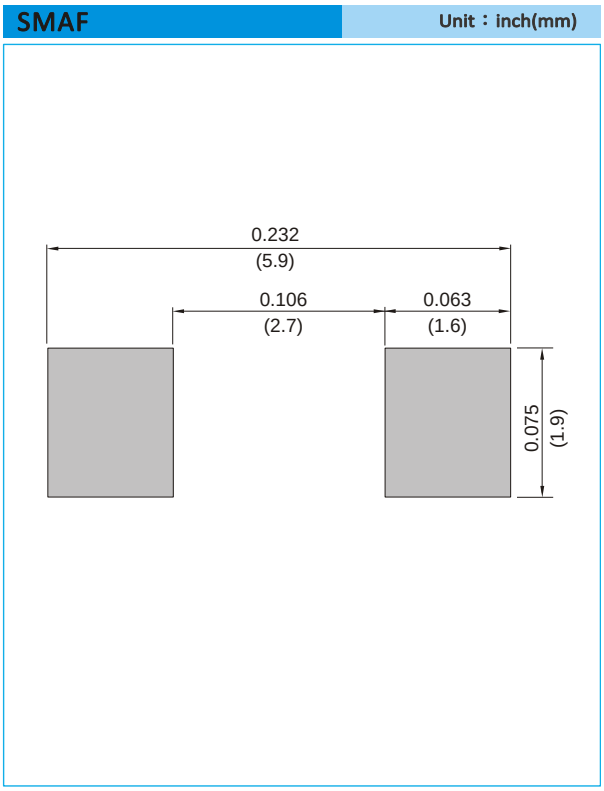


Fig.4 Typical Forward Characteristics

SXM34AVF

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
  T/R – 10K per 13" plastic Reel
  T/R – 3K per 7" plastic Reel

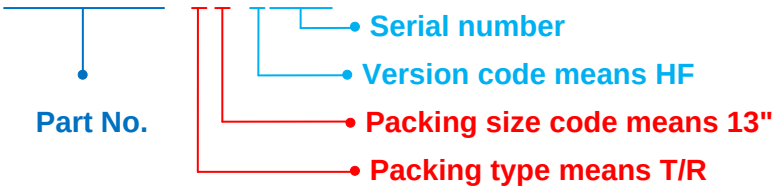
SXM34AVF

Part No_packing code_Version

SXM34AVF_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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			

SXM34AVF

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