



ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

Voltage

60 V

Current

3 A

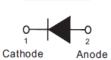
Features

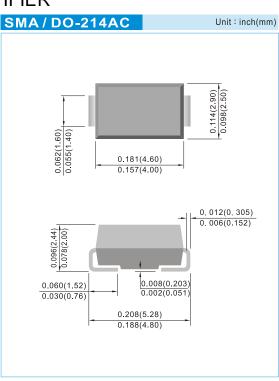
- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

Mechanical Data

- Case: SMA 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: 0.0024 ounces, 0.068 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		VRRM	60	V
Maximum rms voltage		VRMS	42	V
Maximum dc blocking voltage		VR	60	V
Maximum average forward rectified current		IF(AV)	3	А
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	80	А
Typical junction capacitance (VR=4V,f=	:1MHz)	Сл	200	pF
Typical thermal resistance	(Note 2)	$R_{\theta JA}$	150	90.00
	(Note 1)	$R_{ heta JC}$	20	°C/W
Operating junction temperature range		TJ	-55 to +150	°C
Storage temperature range		Тѕтс	-55 to +150	°C

Note: 1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

2. Mounted on a FR4 PCB, single-sided copper, mini pad.





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	60	ı	-	٧
Instantaneous forward voltage	V_F	I _F =1A	TJ=25°C	-	0.34	-	V
		I _F =3A		-	0.45	0.5	
		I _F =1A	TJ=125°C	-	0.27	-	V
		I _F =3A		-	0.43	-	
Reverse current	I_R	V _R =48V	T _J =25°C	-	35	-	μА
		V _R =60V	T _J =25°C	-	-	220	μА
			T _J =125°C	-	10	-	mA





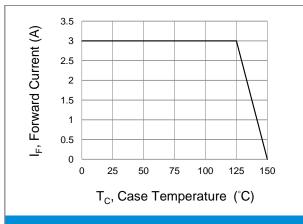


Fig.1 Forward Current Derating Curve

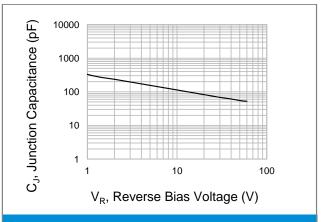


Fig.2 Typical Junction Capacitance

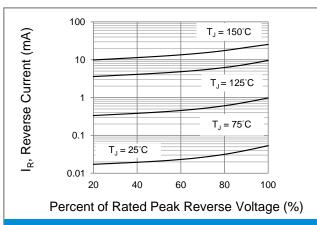


Fig.3 Typical Reverse Characteristics

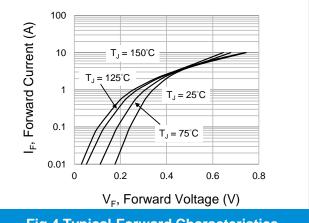


Fig.4 Typical Forward Characteristics

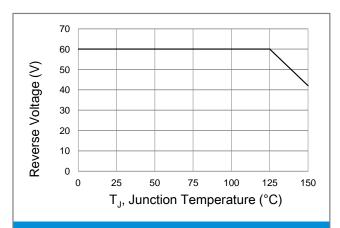
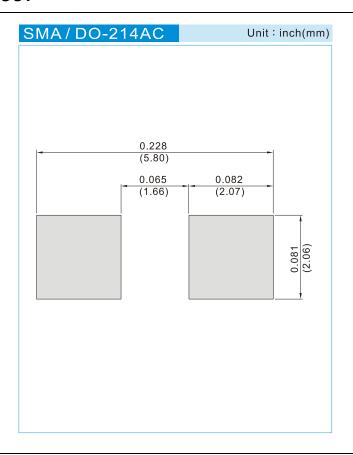


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

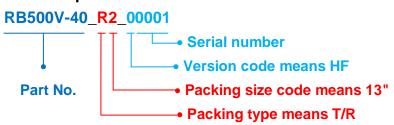




Part No_packing code_Version

SXM36V_R1_00001 SXM36V_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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