



EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

Voltage

50 V

Current

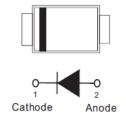
2 A

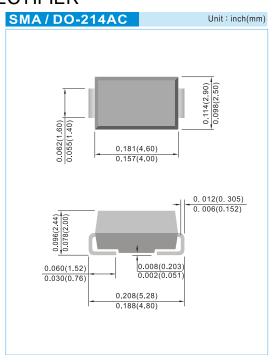
Features

- Ideal for automated placement
- Extreme low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard)

Mechanical Data

- Case: SMA package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.00239 ounces, 0.0697 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	50	V	
Maximum rms voltage		VRMS	35	V	
Maximum dc blocking voltage	VR	50	V		
Maximum average forward rectified current		lf(AV)	2	А	
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	50	А	
Typical thermal resistance	(Note 2)	$R_{\theta JA}$	150	°C/W	
	(Note 1)	$R_{ heta JC}$	22		
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	50	ı	-	V
Instantaneous forward voltage	V _F	I _F =1A	TJ=25°C	-	0.41	-	V
		I _F =2A		-	0.47	0.52	
		I _F =1A	T _J =125°C	-	0.32	-	V
Reverse current	I _R	V _R =40V	T _J =25°C	-	12	-	μА
		V _R =50V	T _J =25°C	-	-	100	μА
			T _J =125°C	-	11	-	mA

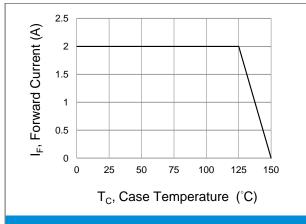


Fig.1 Forward Current Derating Curve

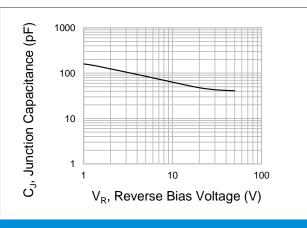
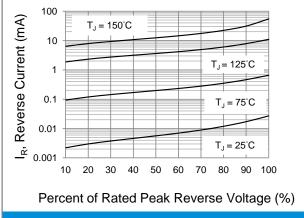


Fig.2 Typical Junction Capacitance





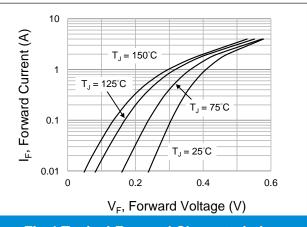
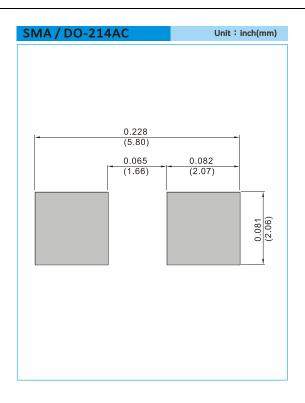


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 7.5K per 13" plastic Reel

T/R – 1.8K per 7" plastic Reel

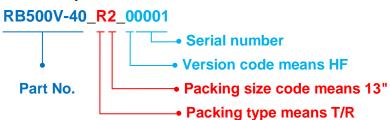




Part No_packing code_Version

SR25U_R1_00001 SR25U_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)	۲	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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