

EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

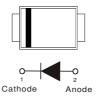
VOLTAGE 100 Volt

FEATURES

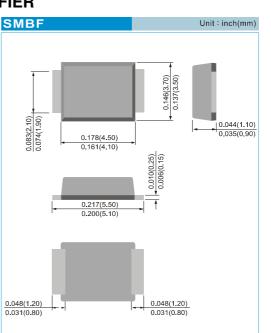
- Ideal for automated placement
- · Extreme low forward voltage drop, low power loss
- High efficiency operation
- · Low thermal resistance
- Ultra thin profile package for space constrained utilization
- · Easy pick and place package suitable for automated handling
- Lead free in compliance with EU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

MECHANICAL DATA

- · Case: plastic molded
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0018 ounces, 0.05 grams
- Polarity: Color band denotes cathode end
- · Marking: Part number



5 Ampere



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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	100	v
Maximum RMS Voltage		Vrms	70	V
Maximum DC Blocking Voltage		VR	100	V
Maximum Average Rectified Output Current		I F(AV)	5	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I FSM	80	А
Typical Junction Capacitance (VR=4V, f=1MHz)		CJ	360	pF
Typical Thermal Resistance	(Notes 1) (Notes 2)	Rojl Roja	15 135	°C/W
Operating Junction Temperature and Storage Temperature range		Тј,Тѕтс	-55 to + 150	°C

NOTES : 1. Mounted on a 10cm*10cm*0.5mm copper pad area

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



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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Break down voltage	VBR	I R=0.5mA	Ta=25°C	100	-	-	V
Instantaneous forward voltage	VF	F=1A F=3A F=5A F=1A	Ta=25°C	- - -	0.42 0.52 0.61 0.33	- - 0.66 -	V
		I	Ta=125°C	-	0.48 0.56	-	V
Reverse current	l r	Vr=70V	Ta=25°C	-	5	-	А
		V _R =100V	Ta=25°C Ta=125°C	-	- 5	50 -	A mA

20 0 0

25

50

Fig.5 Operating Temperature Derating Curve

75

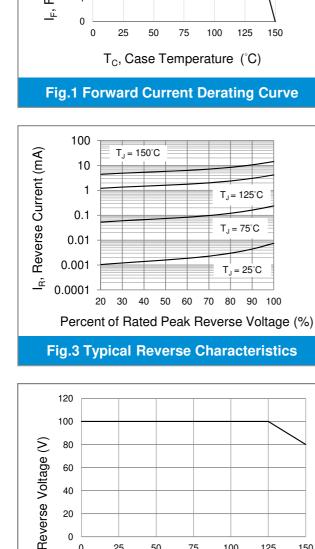
T_J, Junction Temperature (°C)

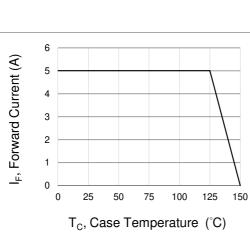
100

125

150







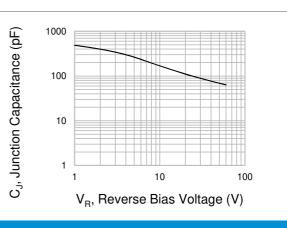
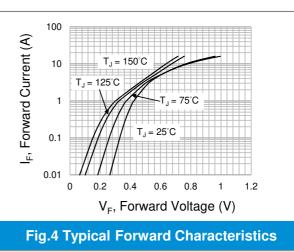


Fig.2 Typical Junction Capacitance

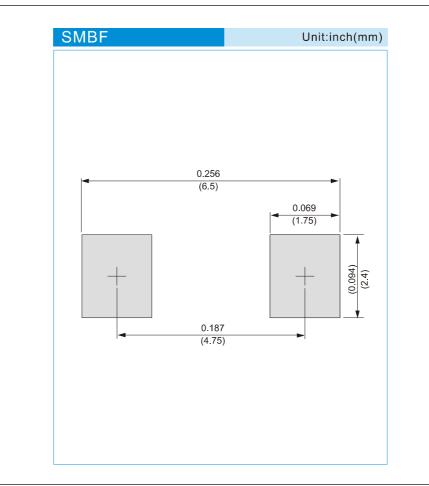




SRT5100UF



MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SRT5100UF_R2_00001

For example :

RB500V-40_R2_00001



Serial number

_.

Version code means HF

- Packing size code means 13"
- Packing type means T/R

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~5th 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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