



ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

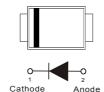
VOLTAGE 100 Volt CURRENT 8 Ampere

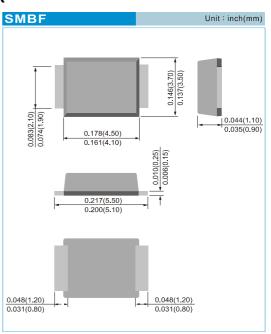
FEATURES

- · 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 2.0
- Green molding compound as per IEC 61249 standard

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





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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	100	V
Maximum RMS Voltage		VRMS	70	٧
Maximum DC Blocking Voltage		VR	100	V
Maximum Average Rectified Output Current		l F(AV)	8	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I FSM	80	Α
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		Т _J ,Тsтg	-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	T _A =25°C	100	-	-	V
Instantaneous forward voltage	VF	I ==1A I ==5A I ==8A	Ta=25°C		0.42 0.61 0.71	- - 0.79	V
		I =1A I =5A	Ta=125°C	1 1	0.33 0.56	1 1	V
Reverse current	l R	V _R =70V	Ta=25°C	-	5	-	μА
		V _R =100V	T _A =25°C T _A =125°C		- 5	50 -	μA mA





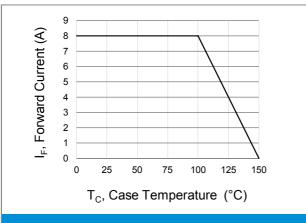


Fig.1 Forward Current Derating Curve

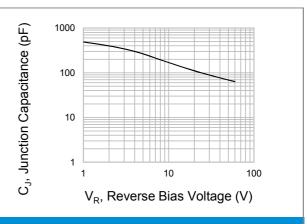


Fig.2 Typical Junction Capacitance

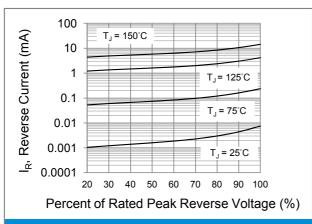


Fig.3 Typical Reverse Characteristics

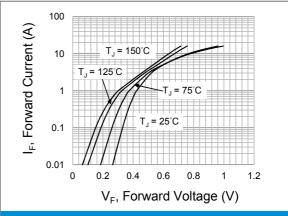


Fig.4 Typical Forward Characteristics

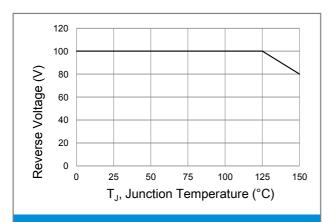
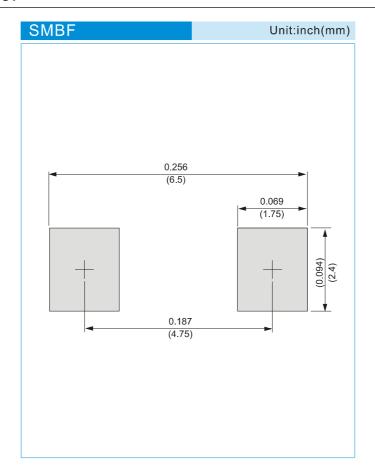


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 1.5K per 7" plastic Reel

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SRT8100LF_R1_00001 SRT8100LF_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)	A	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	х			
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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