SRT8100LF

ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

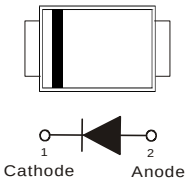
VOLTAGE 100 Volt **CURRENT** 8 Ampere

FEATURES

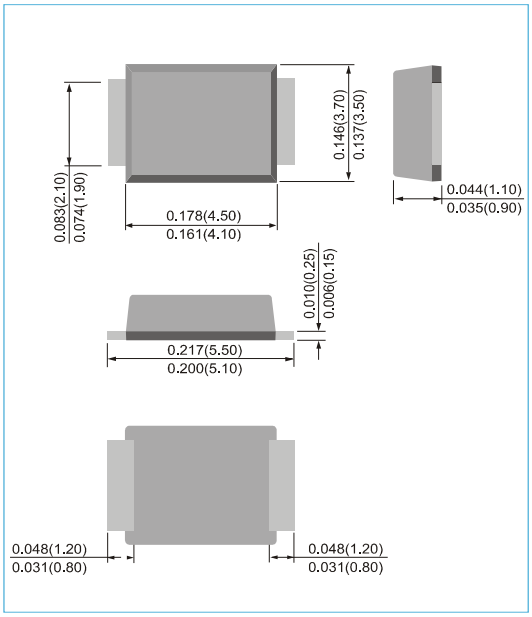
- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU 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



SMBF Unit : inch(mm)



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_R	100	V
Maximum Average Rectified Output Current	$I_{F(AV)}$	8	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80	A
Typical Junction Capacitance (V_R=4V, f=1MHz)	C_J	360	pF
Typical Thermal Resistance (Notes 1) (Notes 2)	$R_{\Theta JL}$ $R_{\Theta JA}$	15 135	°C/W
Operating Junction Temperature and Storage Temperature range	T_J,T_{STG}	-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.

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Break down voltage	V_{BR}	I_R=0.5mA	T_A=25°C	100	-	-	V
Instantaneous forward voltage	V_F	I_F=1A I_F=5A I_F=8A	T_A=25°C	- - -	0.42 0.61 0.71	- - 0.79	V
		I_F=1A I_F=5A	T_A=125°C	- -	0.33 0.56	- -	V
Reverse current	I_R	V_R=70V	T_A=25°C	-	5	-	μA
		V_R=100V	T_A=25°C T_A=125°C	- -	- 5	50 -	μA mA

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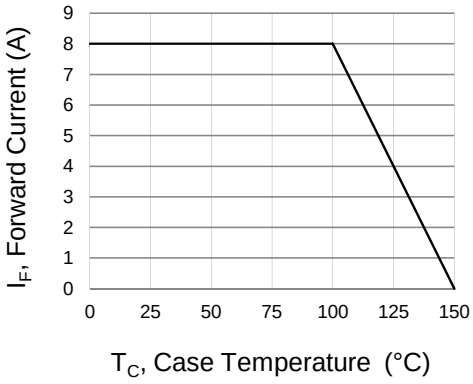

Fig.1 Forward Current Derating Curve

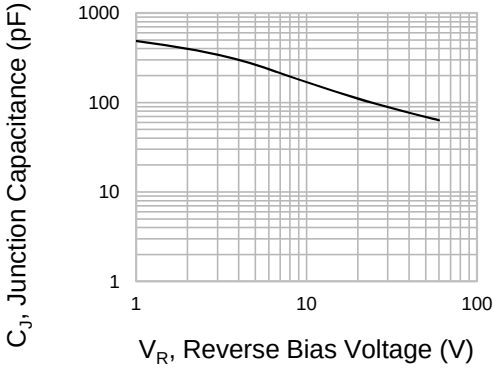

Fig.2 Typical Junction Capacitance

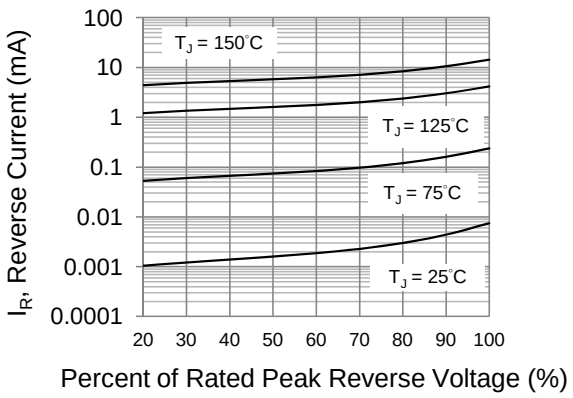

Fig.3 Typical Reverse Characteristics

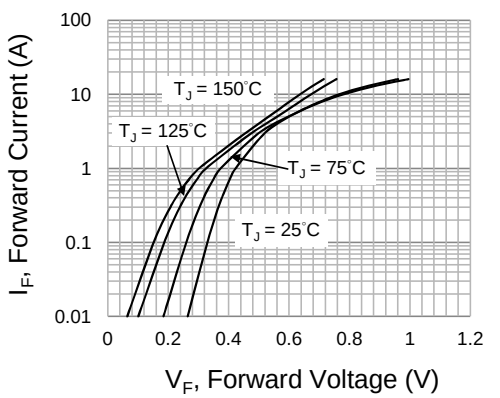

Fig.4 Typical Forward Characteristics

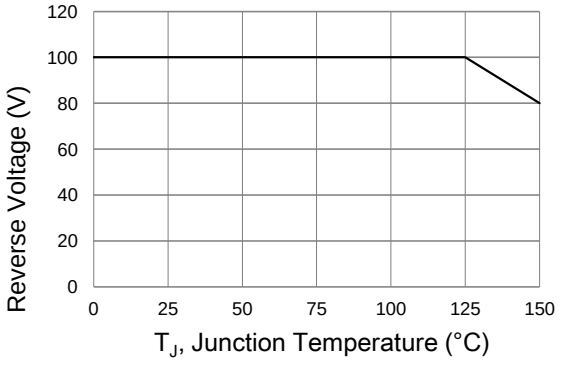

Fig.5 Operating Temperature Derating Curve

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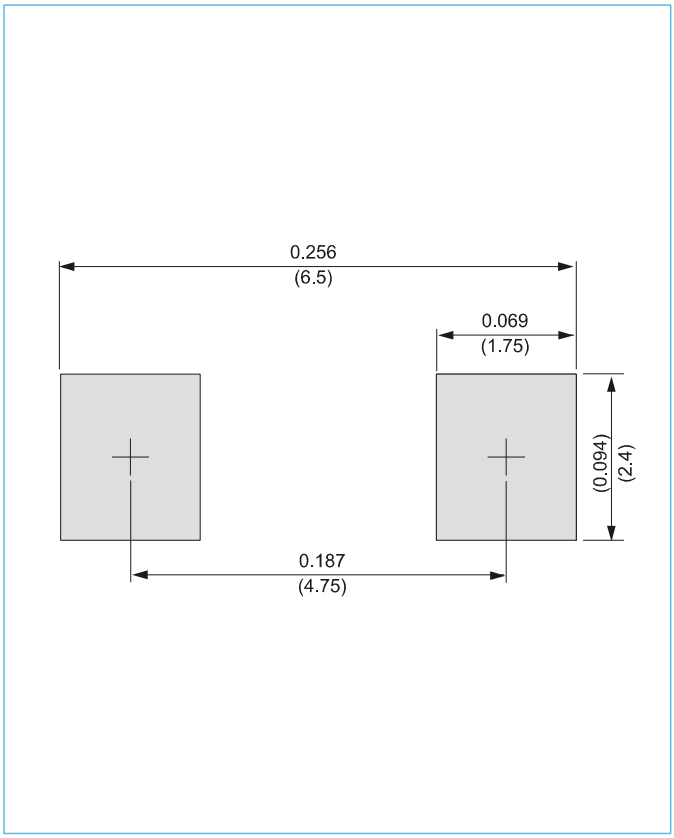
MOUNTING PAD LAYOUT

SMBF Unit:inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 5K per 13" plastic Reel

SRT8100LF

Part No_packing code_Version

SRT8100LF_R2_00001

For example :

RB500V-40_R2_00001

- Part No.
- Serial number
- Version code means HF
- Packing size code means 13"
- Packing type means T/R

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			

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