

SRC4200UF

EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

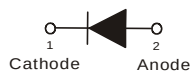
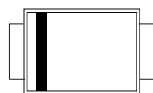
VOLTAGE	200 Volt	CURRENT	4 Ampere
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FEATURES

- Ideal for automated placement
- Extremely low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- 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



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	V
Maximum RMS Voltage	V _{RMS}	140	V
Maximum DC Blocking Voltage	V _R	200	V
Average Rectified Output Current	I _{F(AV)}	4	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100	A
Typical Thermal Resistance (Notes 1) (Notes 2)	R _{ΘJA} R _{ΘJL}	135 15	°C/W
Operating Junction Temperature and Storage Temperature range	T _J , T _{STG}	-55 to + 150	°C

NOTES:1.Mounted on a FR4 PCB, single-sided copper, mini pad.

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



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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 =5μA T _A =25°C	200	-	-	V
Instantaneous forward voltage	V _F	I _F =3A T _A =25°C	-	0.73	-	V
		I _F =4A T _A =25°C	-	0.76	0.84	V
		I _F =3A T _A =125°C	-	0.58	-	V
		I _F =4A T _A =125°C	-	0.61	-	V
Reverse current	I _R	V _R =160V T _A =25°C	-	0.1	-	μA
		V _R =200V T _A =25°C T _A =125°C	- -	- 0.3	1 -	μA mA

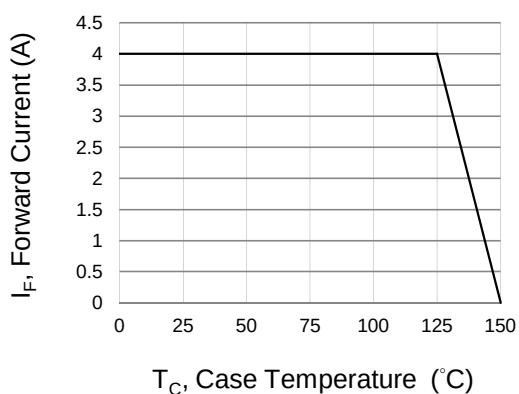


Fig.1 Forward Current Derating Curve

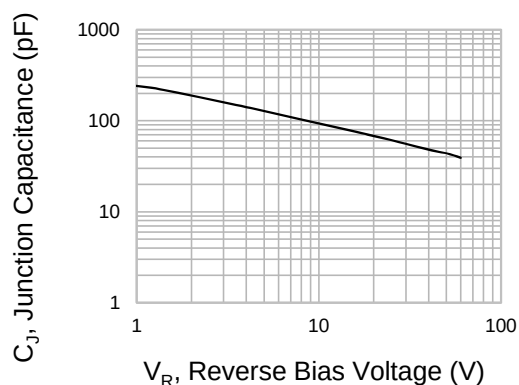


Fig.2 Typical Junction Capacitance

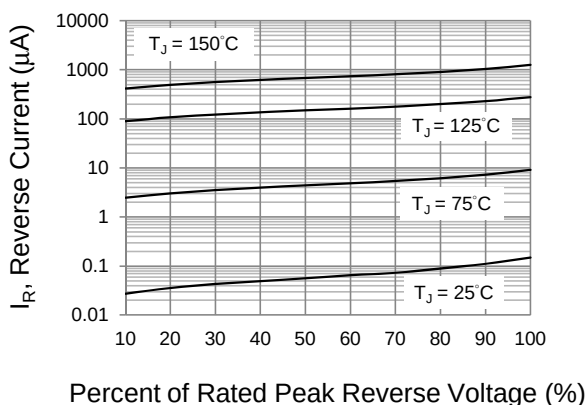


Fig.3 Typical Reverse Characteristics

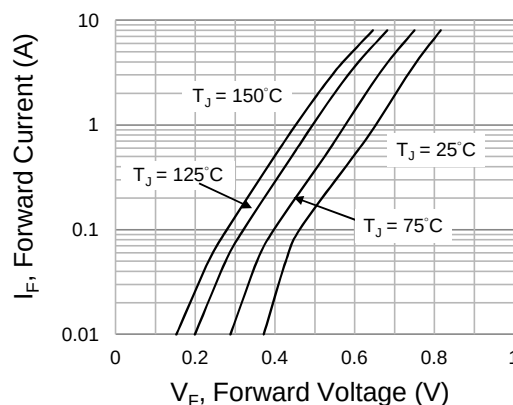


Fig.4 Typical Forward Characteristics

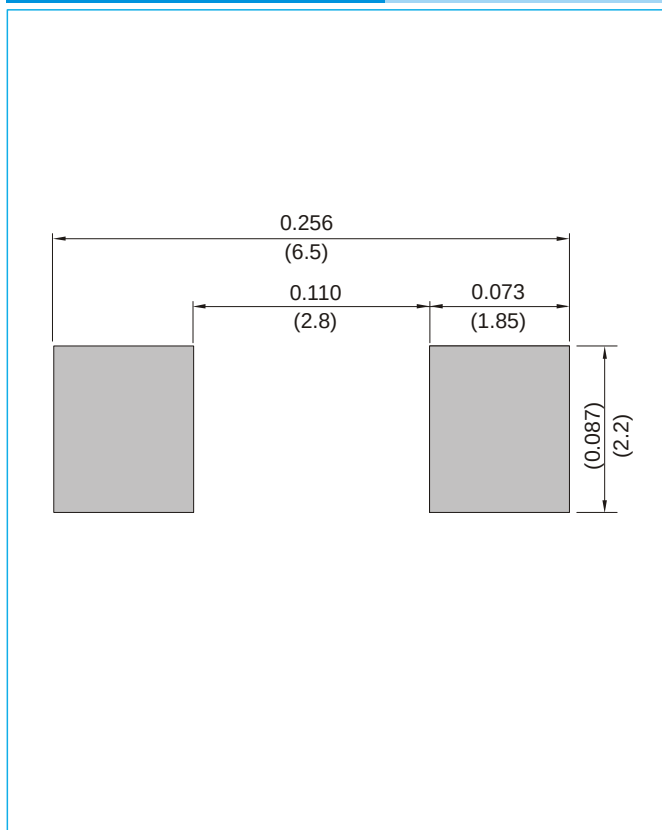


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MOUNTING PAD LAYOUT

SMBF

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 5K per 13" plastic Reel