



Surface Mount Ultra Low IR Schottky Barrier Rectifier

Voltage 150 V Current 5 A

Features

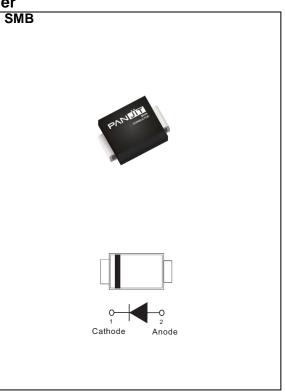
- Low leakage current
- Ideal for automated placement
- Low power loss, high efficiency
- High surge current capability
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: SMB Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.092 grams



Maximum Ratings and Thermal Characteristics ($T_A = 25$ $^{\circ}$ C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	150	V
Maximum RMS Voltage		V _{RMS}	105	V
Maximum DC Blocking Voltage		V_{DC}	150	V
Maximum Average Forward Current		I _{F(AV)}	5	Α
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		IFSM	150	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$		Сл	130	pF
Typical Thermal Resistance	(Note 1)	RθJA	135	
	(Note 2)	Rejc	18	°C/W
	(Note 2)	ReJL	26	
Operating Junction Temperature Range		TJ	-55~175	°C
Storage Temperature Range		T _{STG}	-55~175	°C





Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 1 A, T _J = 25 °C	ı	0.68	ı	V
		I _F = 3 A, T _J = 25 °C	ı	0.76	ı	V
		I _F = 5 A, T _J = 25 °C	-	-	0.85	V
		I _F = 1 A, T _J = 125 °C	-	0.54	-	V
		I _F = 3 A, T _J = 125 °C	-	0.63	-	V
		I _F = 5 A, T _J = 125 °C	-	0.67	-	V
Reverse Current	I _R	V _R = 120 V, T _J = 25 °C	ı	16	-	nA
		V _R = 150 V, T _J = 25 °C	-	-	0.5	uA
		V _R = 150 V, T _J = 125 °C	-	-	1	mA

NOTES:

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





TYPICAL CHARACTERISTIC CURVES

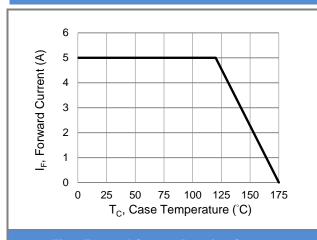


Fig.1 Forward Current Derating Curve

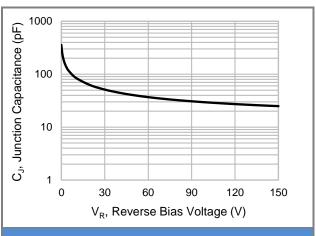


Fig.2 Typical Junction Capacitance

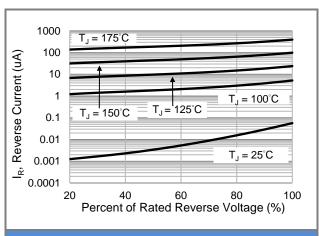


Fig.3 Typical Reverse Characteristics

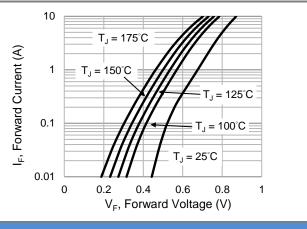


Fig.4 Typical Forward Characteristics

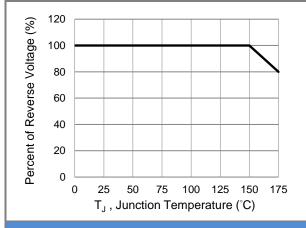


Fig.5 Operating Temperature Derating Curve

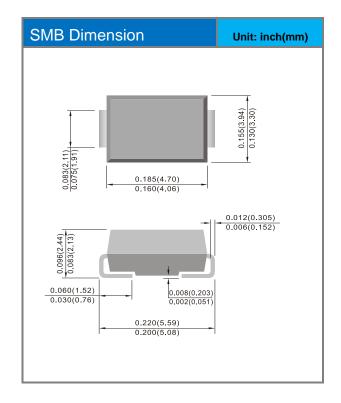


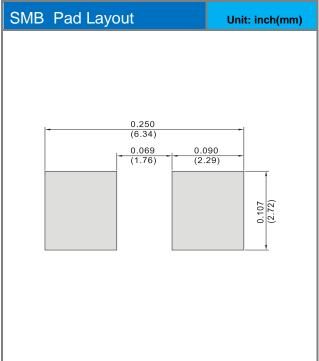


Part No. Packing Code Version

Part No.	Package Type	Packing Type	Marking	Version
SR5H15-AU	SMB	3K pcs / 13" reel	SR5H15	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout









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