

SS54LB Schottky Barrier Rectifiers

General description

5.0Amp Surface Mounted Schottky Barrier Rectifiers

FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.1g / 0.0034oZ

Maximum Ratings And Electrical Characteristics

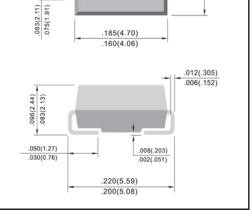
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	SS54LB	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	45	V
Maximum RMS voltage	V _{RMS}	32	V
Maximum DC Blocking Voltage	V _{DC}	45	V
Maximum Average Forward Rectified Current at $T_{\rm c}\text{=}~100~^{\circ}\text{C}$	I _{F(AV)}	5	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	150	А
Maximum Instantaneous Forward Voltage at 5 A	V _F	0.45	V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a =100 °C	I _R	1 50	mA
Typical Junction Capacitance ⁽¹⁾	Cj	800	pF
Typical Thermal Resistance ⁽²⁾	R _{θJA}	37	°C/W
Operating Junction Temperature Range	Tj	-55 ~ +150	°C
Storage Temperature Range	T _{stg}	-55 ~ +150	°C

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

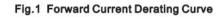








Rating And Characteristic Curves



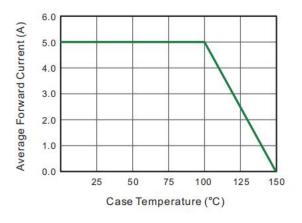
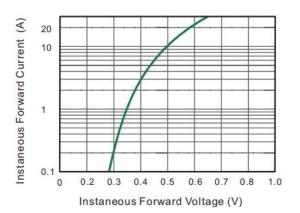


Fig.3 Typical Forward Characteristic



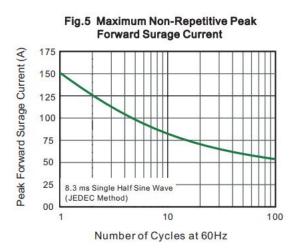


Fig.2 Typical Reverse Characteristics

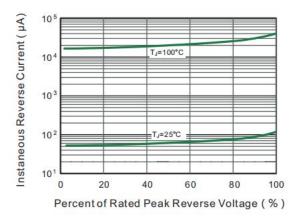
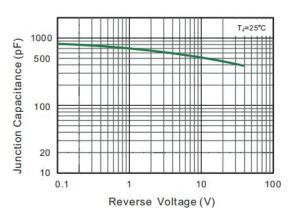
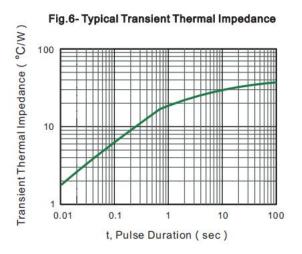


Fig.4 Typical Junction Capacitance







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