SS54LB



SS54LB Schottky Barrier Rectifiers

General description

5.0Amp Surface Mounted Schottky Barrier Rectifiers

FEATURES

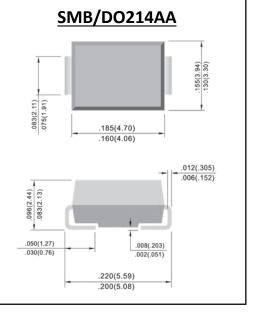
- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

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 _c = 100 °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)	C _j	800	pF
Typical Thermal Resistance (2)	$R_{\theta JA}$	37	°C/W
Operating Junction Temperature Range	Tj	-55 ~ +150	°C
Storage Temperature Range	T _{stg}	-55 ~ +150	°C

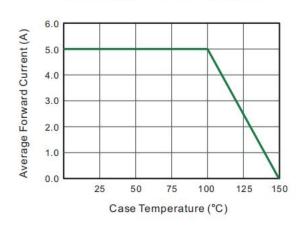
⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

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



Rating And Characteristic Curves

Fig.1 Forward Current Derating Curve



10⁴ T_J=100°C T_J=25°C T_J=25°C

Fig.2 Typical Reverse Characteristics

Fig.3 Typical Forward Characteristic

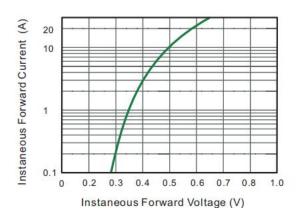


Fig.4 Typical Junction Capacitance

Percent of Rated Peak Reverse Voltage (%)

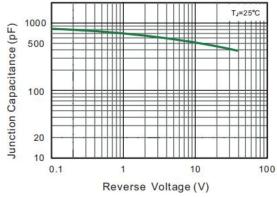


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

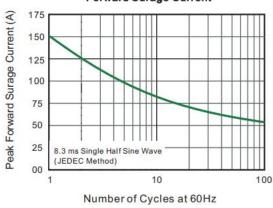
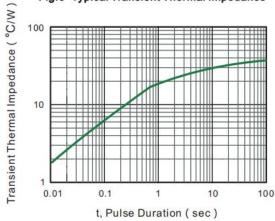


Fig.6- Typical Transient Thermal Impedance





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