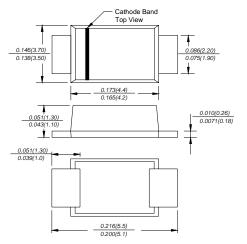


SL54BF

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 40 Volts Forward Current - 5.0 Ampere

SMBF



Dimensions in inches and (millimeters)

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: JEDEC SMBF molded plastic body Terminals: leads solderable per MIL-STD-750.

Method 2026

Mounting Position: Any **Weight**:57mg/0.002oz

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MDD Catalog Number	SYMBOLS	SL54BF	UNITS
Maximum repetitive peak reverse voltage	Vrrm	40	VOLTS
Maximum RMS voltage	VRMS	28	VOLTS
Maximum DC blocking voltage	VDC	40	VOLTS
Maximum average forward rectified current	l(AV)	5.0	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	125	Amps
Maximum instantaneous forward voltage at 5.0A	VF	0.45	Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lr	1.0 50.0	mA
Typical junction capacitance (NOTE 1)	Сл	800	pF
Typical thermal resistance (NOTE 2)	Reja	40.0	°C/W
Operating junction temperature range	TJ,	-50 to +125	°C
Storage temperature range	Тѕтс	-50 to +150	°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.5x0.5"(12.7x12.7mm) copper pad areas



RATINGS AND CHARACTERISTIC CURVES SL54BF

Fig.1 Forward Current Derating Curve

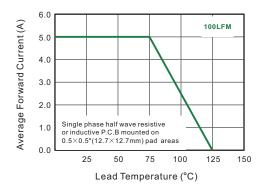


Fig.3 Typical Forward Characteristic

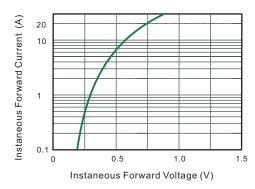


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

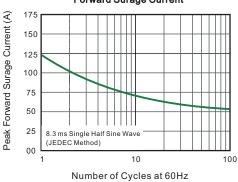


Fig.2 Typical Reverse Characteristics

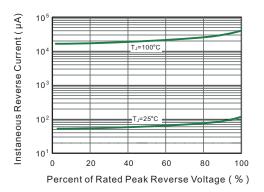


Fig.4 Typical Junction Capacitance

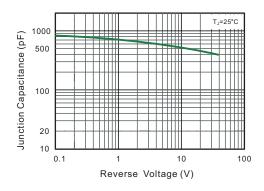
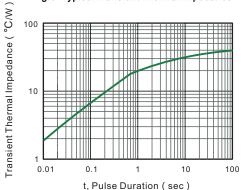


Fig.6- Typical Transient Thermal Impedance



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

