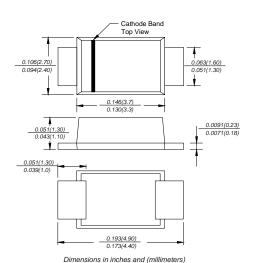


SL54F

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 40 Volts Forward Current - 5.0 Ampere

SMAF



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability,low VF
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC SMAF molded plastic body Terminals: leads solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0018 ounce, 0.064 grams

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%.

	SYMBOLS	01.545	UNITS
MDD Catalog Number	SYMBULS	SL54F	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
at TL(see fig.1)			
Peak forward surge current			
8.3ms single half sine-wave superimposed on	IFSM	120.0	Amps
rated load (JEDEC Method)			
Maximum instantaneous forward voltage at 5.0A	VF	0.45	Volts
Maximum DC reverse current Ta=25°C	l _R	0.5	- mA
at rated DC blocking voltage Ta=100℃		20.0	
Typical junction capacitance (NOTE 1)	CJ	200	pF
Typical thermal resistance (NOTE 2)	RθJA	50.0	°C/W
Operating junction temperature range	TJ,	-50 to +150	°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 0.2x0.2"(5.0x5.0mm) copper pad areas



RATINGS AND CHARACTERISTIC CURVES SL54F

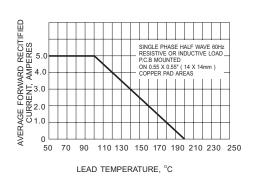


Fig.1- FORWARD CURRENT DERATING CURVE

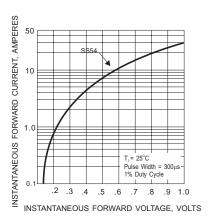


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

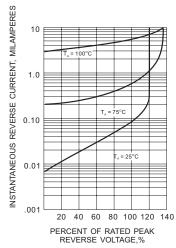


Fig.3- TYPICAL REVERSE CHARACTERISTIC

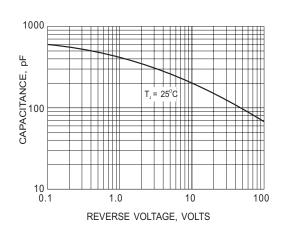


Fig.4- TYPICAL JUNCTION CAPACITANCE

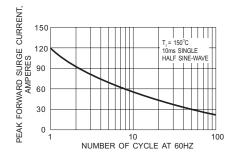


Fig.5- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

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

