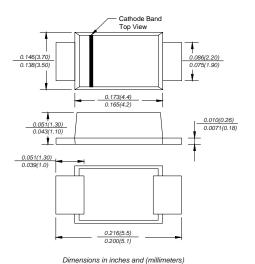


SL54BF

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 40 Volts Forward Current - 5.0 Ampere

SMBF



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)	CJ	380	pF
Typical thermal resistance (NOTE 2)	Rθja	25	°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

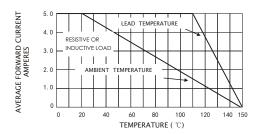


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

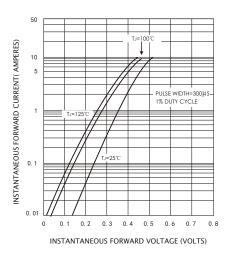


FIG.5-TYPICAL JUNCTION CAPACITANCE

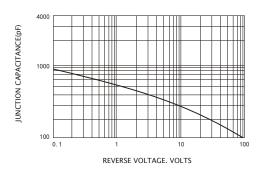
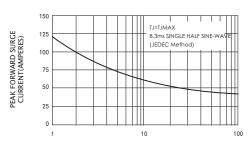
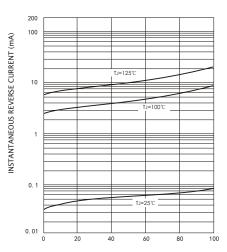


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE%

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



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Microdiode Electronics manufacturer:

Other Similar products are found below:

MA4E2039 MA4E2508M-1112 MBR10100CT-BP MBR1545CT MMBD301M3T5G GS1JE-TP RB160M-50TR BAS 3010S-02LRH E6327
BAT 54-02LRH E6327 NSR05F40QNXT5G NSVR05F40NXT5G NTE555 JANS1N6640 SB07-03C-TB-H SBAT54CWT1G SK310-T
SK33A-TP SK34B-TP SS3003CH-TL-E PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G
BAS 70-02L E6327 DMJ3940-000 SB007-03C-TB-E SK32A-TP SK33B-TP SK35A-TP SK38B-LTP SK38B-TP NTE505
NTSB30U100CT-1G VS-6CWQ10FNHM3 CRG04(T5L,TEMQ) ACDBA1100LR-HF ACDBA1200-HF ACDBA140-HF ACDBA2100-HF
ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF BAT54-13-F ACDBA340-HF ACDBA260LR-HF ACDBA1100-HF MA4E2502L1246 10BQ060-M3/5BT 10BQ040-M3/5BT