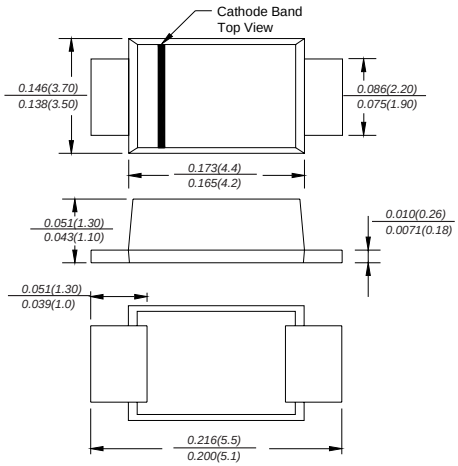
SL210BF

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 100 Volts Forward Current - 2.0 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 applicatlons

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℃ 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*	**SL210BF**	**UNITS**
Maximum repetitive peak reverse voltage	V_{RRM}	100	VOLTS
Maximum RMS voltage	V_{RMS}	70	VOLTS
Maximum DC blocking voltage	V_{DC}	100	VOLTS
Maximum average forward rectified current	$I_{(AV)}$	2.0	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50	Amps
Maximum instantaneous forward voltage at 2.0A	V_F	0.7	Volts
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=100℃	I_R	0.15 20	mA
Typical junction capacitance (NOTE 1)	C_J	100	pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	25	°C/W
Operating junction temperature range	T_J,	-50 to +125	°C
Storage temperature range	T_{STG}	-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

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RATINGS AND CHARACTERISTIC CURVES SL210BF

Fig.1 Forward Current Derating Curve

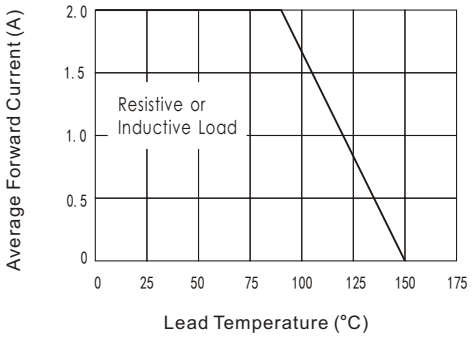


Fig.2 Typical Reverse Characteristics

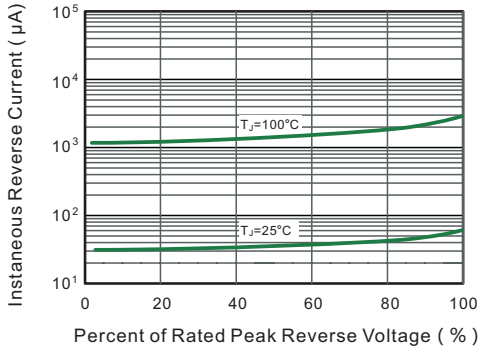


Fig.3 Typical Forward Characteristic

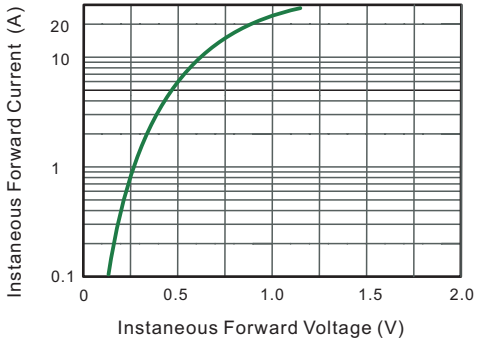


Fig.4 Typical Junction Capacitance

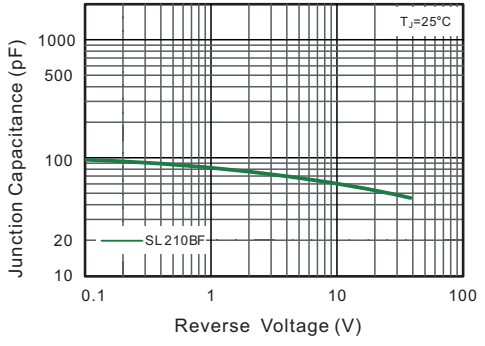


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

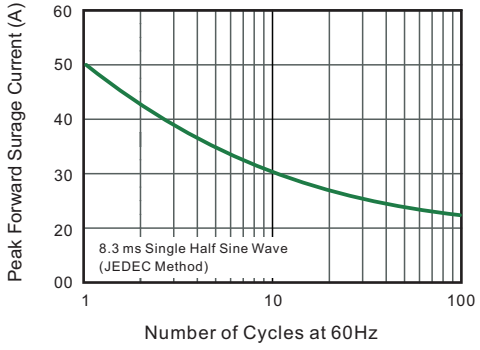
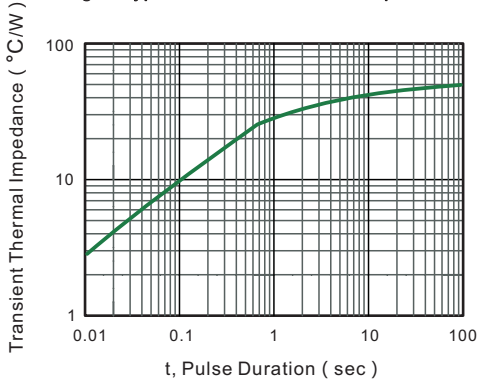


Fig.6- Typical Transient Thermal Impedance



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

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