

Schottky Barrier Rectifiers

PRODUCT SUMMARY

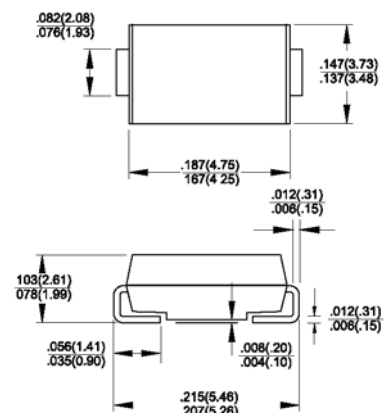
Surface Mount Low V_F
 Reverse Voltage 20 to 40 Volts
 Forward Current 2.0 Amperes



FEATURES

- For surface mounted application
- Metal silicon junction, majority carrier conduction
- Low forward voltage drop
- Easy pick and place
- High surge current capability
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- Epitaxial construction
- High temperature soldering:
 250°C / 10 seconds at terminals

DO-214AA (SMB)



Dimensions in inches and (millimeters)

MECHANICAL DATA

Cases: Molded plastic
 Terminals: Solder plated
 Polarity: Indicated by cathode band
 Weight: 0.003 ounce, 0.093 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

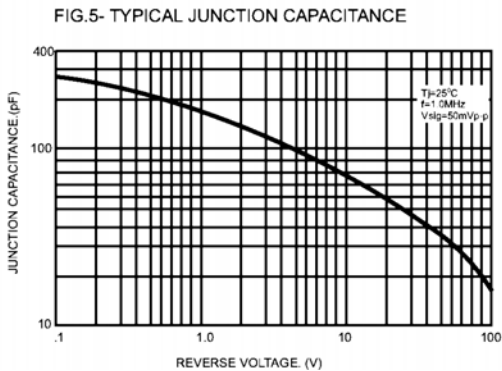
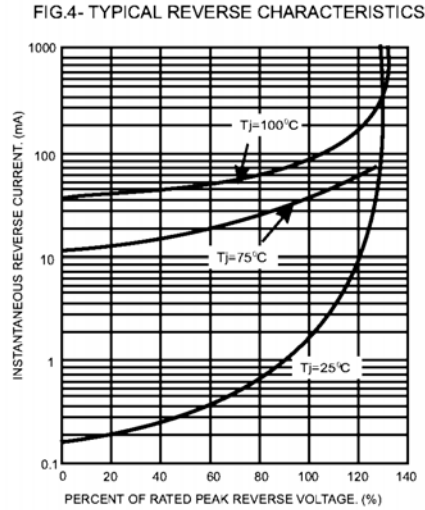
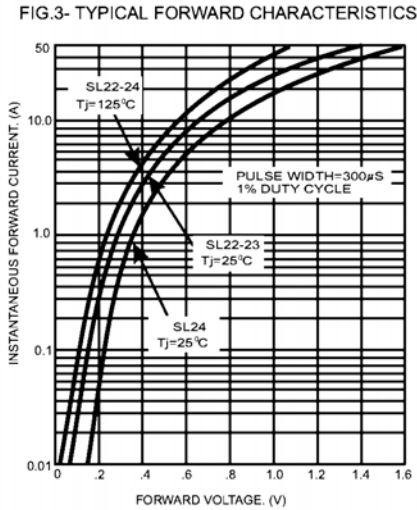
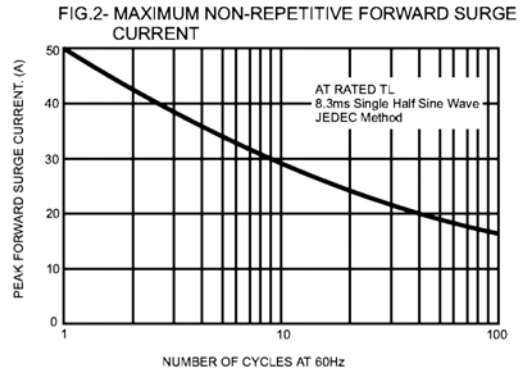
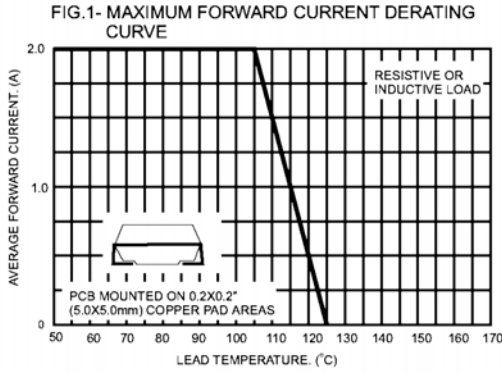
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbols	SL22	SL23	SL24	Units
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	Volts
Maximum average forward rectified current See Fig. 1	$I_{(AV)}$	2.0			Amps
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0			Amps
Maximum instantaneous forward voltage @ 2.0A (Note 1)	V_F	0.385	0.385	0.400	Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	3.0 150			mA
					@ $T_A=25^{\circ}C$ @ $T_A=100^{\circ}C$
Maximum thermal resistance (Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	25 75			°C/W
Operating junction temperature range	T_J	-55 to +125			°C
Storage temperature range	T_{STG}	-55 to +150			°C

- Notes:**
1. Pulse Test with PW=300 usec, 1% Duty Cycle.
 2. Measured on P.C. Board with 0.2 x 0.2" (5.0 x 5.0 mm) Copper Pad Areas.

RATINGS AND CHARACTERISTIC CURVES



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