

Surface Mount Low V_F Schottky Barrier Rectifiers Reverse Voltage 20 to 40 Volts Forward Current 3.0 Amperes

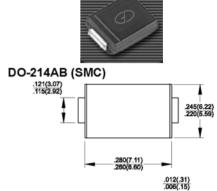
Features

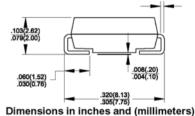
- ◆ For surface mounted application
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low forward voltage drop
- ◆ Easy pick and place
- ♦ High surge current capability
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- Epitaxial construction
- High temperature soldering: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

Mechanical Data

◆ Cases: Molded plastic◆ Terminals: Solder plated

◆ Polarity: Indicated by cathode band◆ Weight: 0.09 ounce, 0.25 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	SL32	SL33	SL34	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)	3.0			Amps
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100.0			Amps
Maximum instantaneous forward voltage @ 3.0A (Note 1)	V _F	0.385	0.385	0.400	Volts
Maximum DC reverse current @ T _A =25°C at rated DC blocking voltage @ T _A =100°C	l _R	5.0 250			mA
Maximum thermal resistance (Note 2)	$R_{_{\theta JA}}$	17 55			°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=300usec, 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

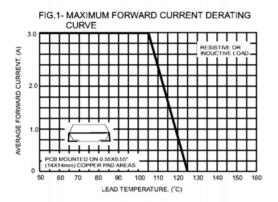


FIG.3- TYPICAL FORWARD CHARACTERISTICS

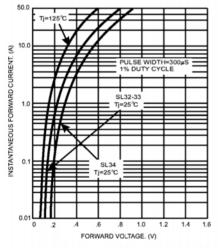


FIG.5- TYPICAL JUNCTION CAPACITANCE

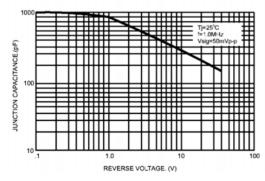


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

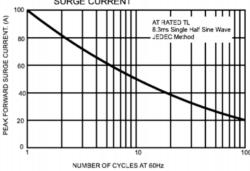


FIG.4- TYPICAL REVERSE CHARACTERISTICS

