SB310-B

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 100V

Classification 94V-0

Low profile package

High surge capability

MECHANICAL DATA

Method 2026

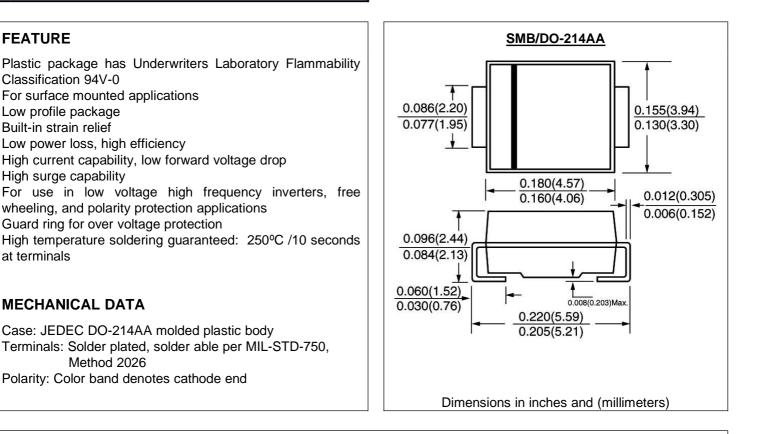
at terminals

Built-in strain relief

FEATURE

CURRENT: 3.0A





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	SB310-B	unite
Maximum Recurrent Peak Reverse Voltage	Vrrm	100	V
Maximum RMS Voltage	Vrms	70	V
Maximum DC blocking Voltage	Vdc	100	V
Maximum Average Forward Rectified Current	lf(av)	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	100.0	A
Maximum Forward Voltage atrated Forward current (Note 1)	Vf	0.85	V
Maximum DC Reverse CurrentTa = 25° Cat rated DC blocking voltageTa = 100° C	lr	0.6 20.0	mA
Typical Thermal Resistance (Note 2)	Rth(ja)	55.0	°C/V
Storage and Operating Temperature Range	Tstg,Tj	-55 to +150	°C

Pulse test: 300µs pulse width, 1% duty cycle

2. P.C.B. mounted with 0.2 x 0.2 inches (5.0 x 5.0 mm) copper pad areas



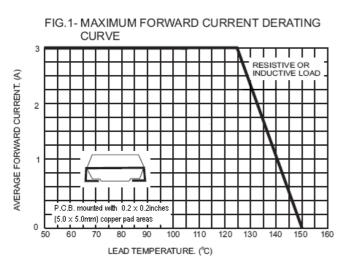


FIG.3- TYPICAL FORWARD CHARACTERISTICS

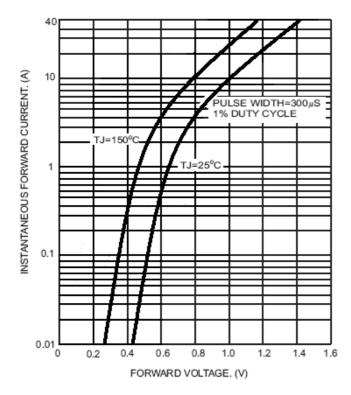
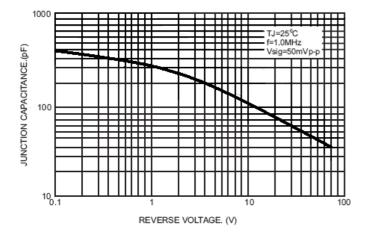


FIG.5- TYPICAL JUNCTION CAPACITANCE



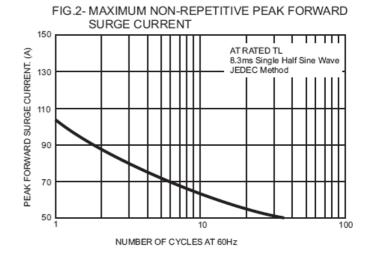


FIG.4- TYPICAL REVERSE CHARACTERISTICS

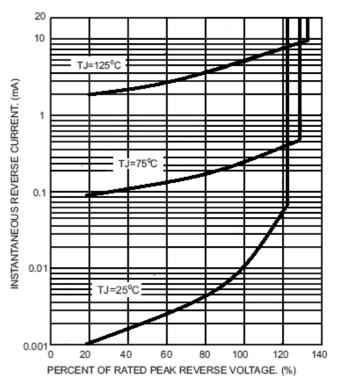
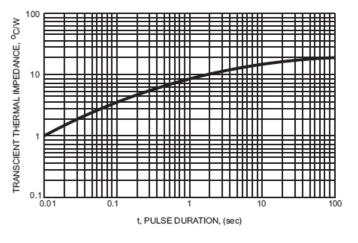


FIG.6- TYPICAL TRANSIENT TERMAL IMPDANCE



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