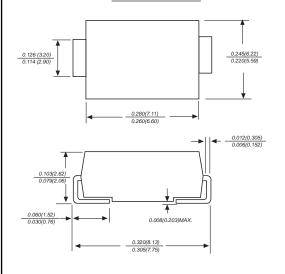


SS82 THRU SS810

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 8.0 Amperes

DO-214AB/SMC



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- High temperature soldering guarantéed: 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AB molded plastic body Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.007 ounce, 0.25grams

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	SS82	SS83	SS835	SS84	SS845	SS86	SS88	SS810	UNITS
Maximum repetitive peak reverse voltage	VRRM	20	30	35	40	45	60	80	100	VOLTS
Maximum RMS voltage	VRMS	14	21	24.5	28	31.5	42	56	70	VOLTS
Maximum DC blocking voltage	VDC	20	30	35	40	45	60	80	100	VOLTS
Maximum average forward rectified current at TL =95 $^{\circ}\!$	l(AV)	8.0								Amps
Peak forward surge current										
8.3ms single half sine-wave superimposed on	Іғѕм	200.0								Amps
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 8.0A	VF	0.65 0.85						Volts		
Maximum DC reverse current Ta=25°C	1									mA
at rated DC blocking voltage Ta=100℃	I _R 20									
Typical junction capacitance (NOTE 1)	C¹	400								pF
Typical thermal resistance (NOTE 2)	Reja	18.0								°C/W
Operating junction temperature range	TJ,	-50 to +150								°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 0.2x0.2 "(5.0x5.0mm) copper pad areas

MDD ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES SS82 THRU SS810

Figure 1 Typical Forward Characteristics

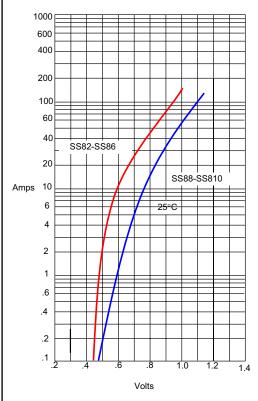
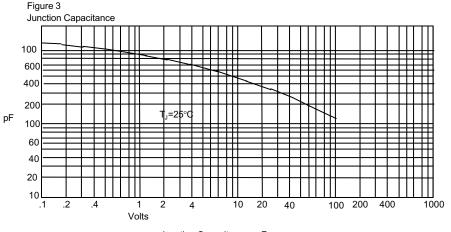


Figure 2 Forward Derating Curve 12 10 8.0 6.0 Amps 4.0 2.0 Single Phase, Half Wa١ nductiv 0 60 80 100 120 140 160 180

Average Forward Rectified Current - Amperesversus Junction Temperature -°C

Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



Junction Capacitance - pF versus Reverse Voltage - Volts

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RATINGS AND CHARACTERISTIC CURVES SS82 THRU SS810

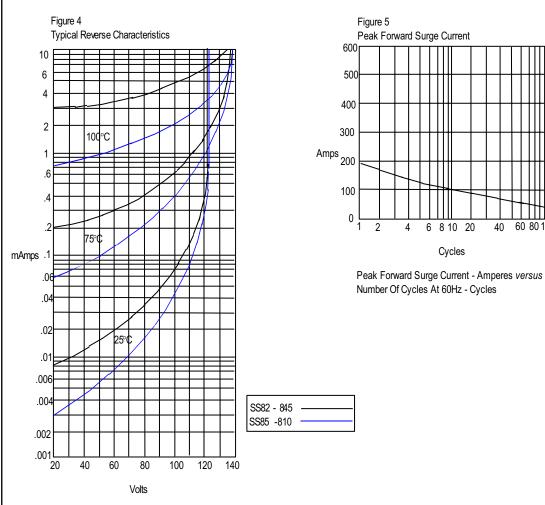
20

40

8 10

Cycles

60 80 100



Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts

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