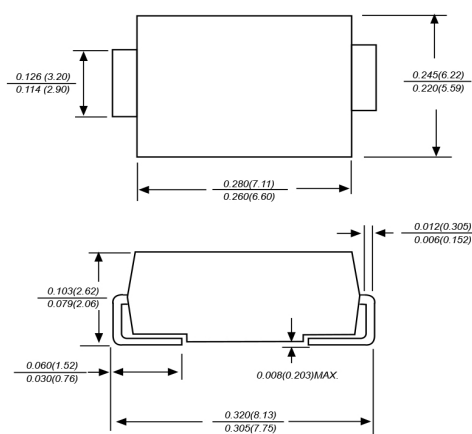


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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 guaranteed: 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
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

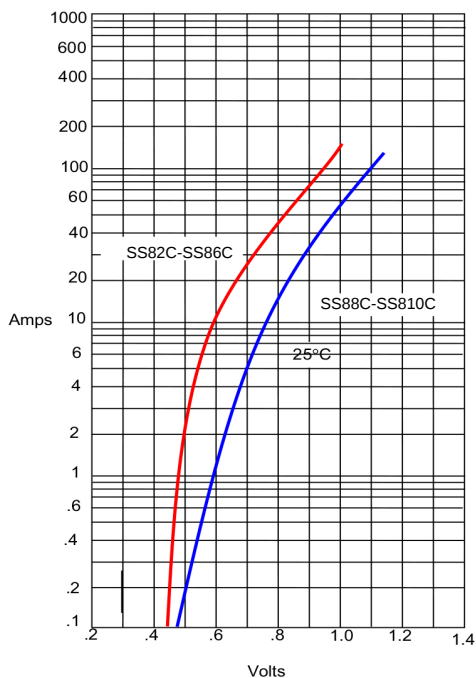
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

TWGMC Catalog Number	SYMBOLS	SS82C	SS83C	SS835C	SS84C	SS845C	SS86C	SS88C	SS810C	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	35	40	45	60	80	100	VOLTS
Maximum RMS voltage	V _{RMS}	14	21	24.5	28	31.5	42	56	70	VOLTS
Maximum DC blocking voltage	V _{DC}	20	30	35	40	45	60	80	100	VOLTS
Maximum average forward rectified current at T _L =95 °C	I _(AV)	8.0								Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200.0								Amps
Maximum instantaneous forward voltage at 8.0A	V _F	0.65						0.85		Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	1								mA
		20								
Typical junction capacitance (NOTE 1)	C _J	400								pF
Typical thermal resistance (NOTE 2)	R _{θJA}	18.0								°C/W
Operating junction temperature range	T _J	-50 to +150								°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 0.2x0.2" (5.0x5.0mm) copper pad areas

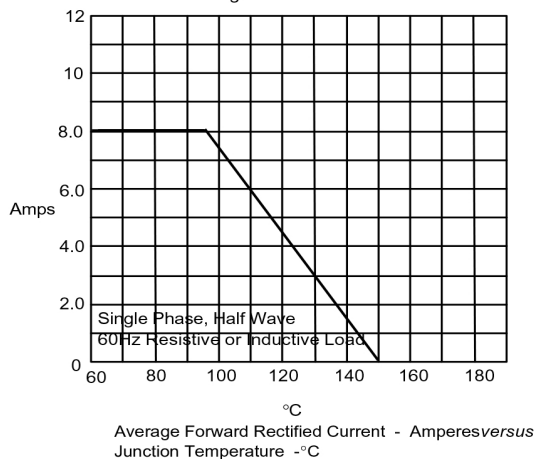
RATINGS AND CHARACTERISTIC CURVES SS82C THRU SS810C

Figure 1
Typical Forward Characteristics



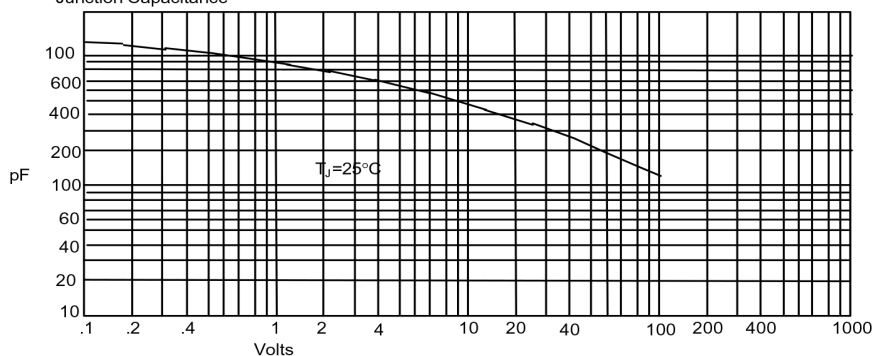
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Junction Temperature - °C

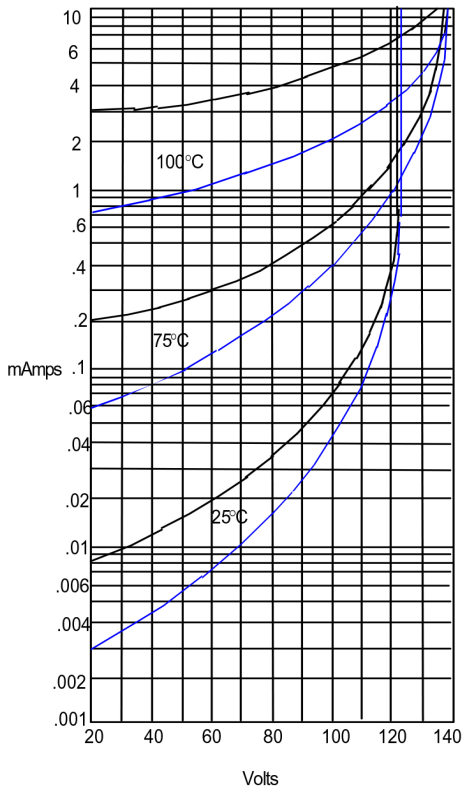
Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

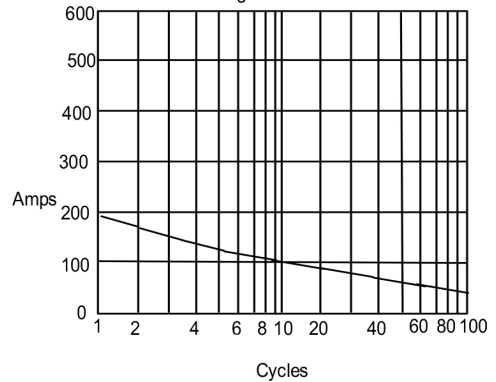
RATINGS AND CHARACTERISTIC CURVES SS82C THRU SS810C

Figure 4
Typical Reverse Characteristics



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

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles