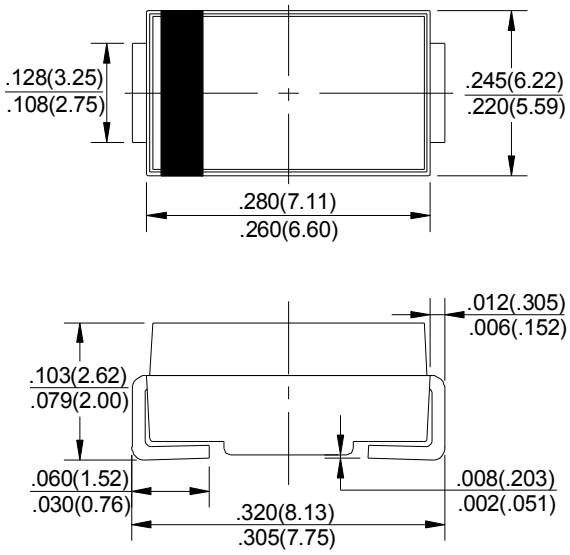
CURRENT 8.0 Ampere
VOLTAGE RANG 20 to 100 Volts

SS82C THRU SS810C

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

DO-214AB/SMC



Dimensions in inches and (millimeters)

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

Catalog Number	*SYMBOLS*	SS82	SS83	SS835	SS84	SS845	SS86	SS88	SS810	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℃	$I_{(AV)}$	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℃ at rated DC blocking voltage T_A=100℃	I_R	1 20								mA
Typical junction capacitance (NOTE 1)	C_J	400								pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	18.0								°C/W
Operating junction temperature range	T_J,	-50 to +150								°C
Storage temperature range	T_{STG}	-50 to +150								°C

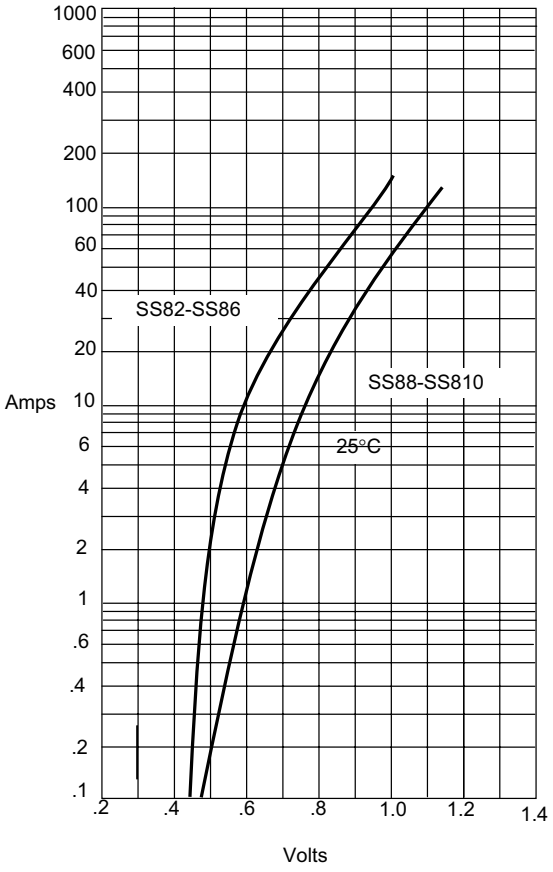
Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

CURRENT 8.0 Ampere
VOLTAGE RANG 20 to 100 Volts

SS82C THRU SS810C

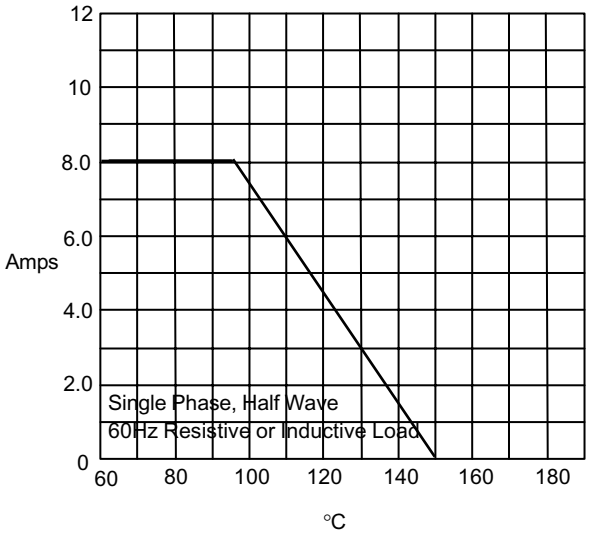
RATING AND CHRACTERISTIC CURVES SS82 Thru SS810

Figure 1
Typical Forward Characteristics



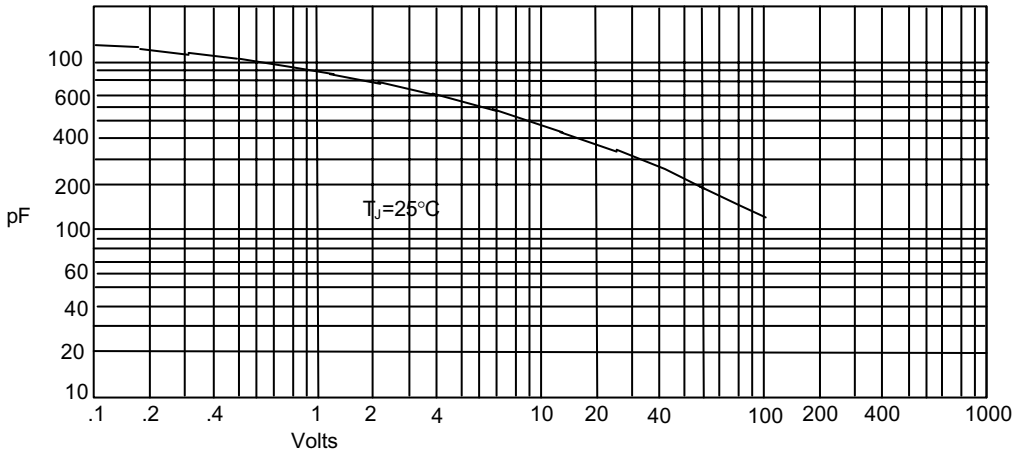
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Junction Capacitance



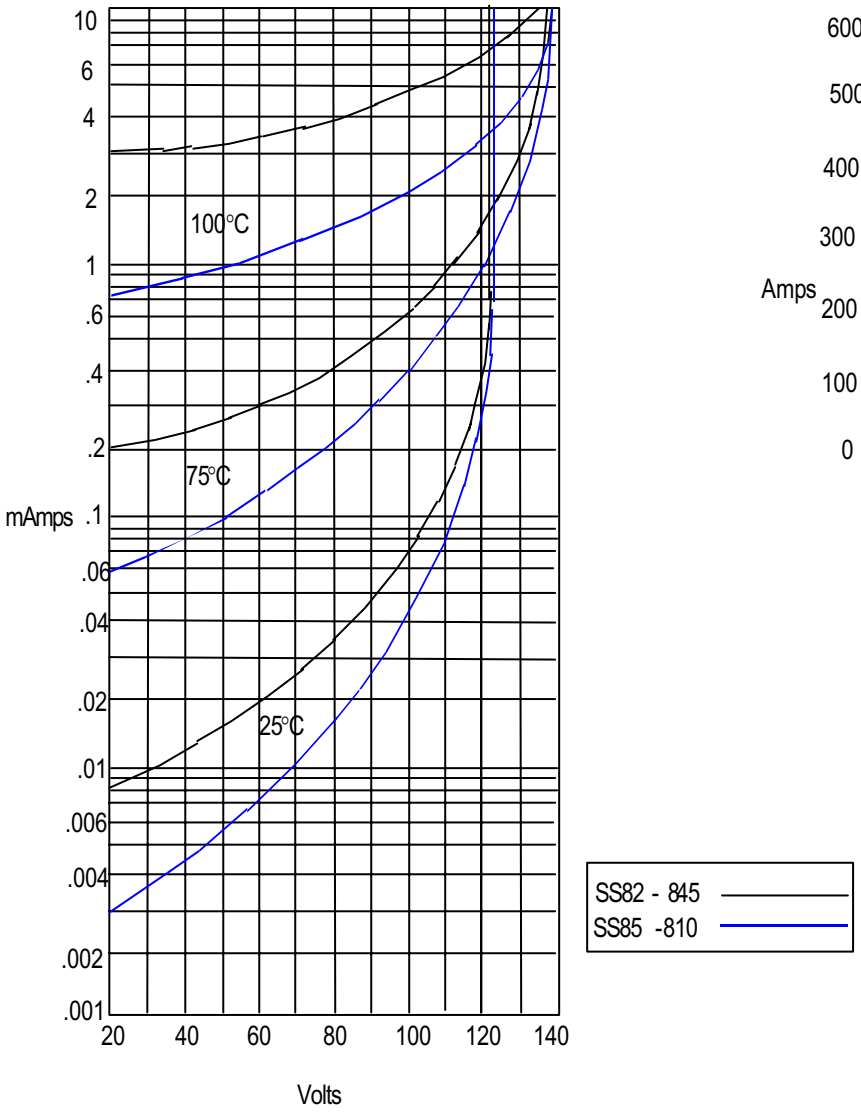
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

CURRENT 8.0 Ampere
VOLTAGE RANG 20 to 100 Volts

SS82C THRU SS810C

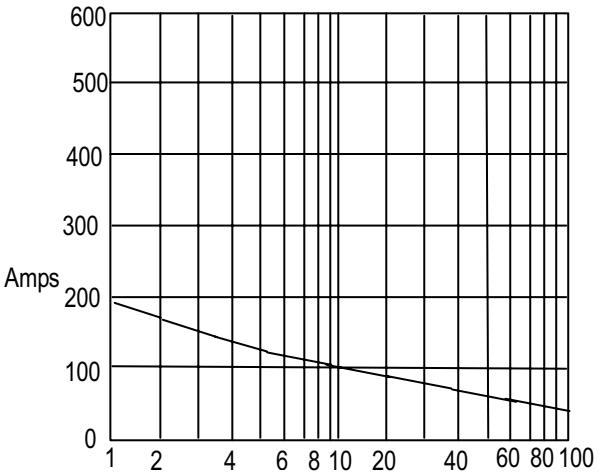
RATING AND CHRACTERISTIC CURVES SS82 Thru SS810

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