

VOLTAGE RANGE: 20 - 100V

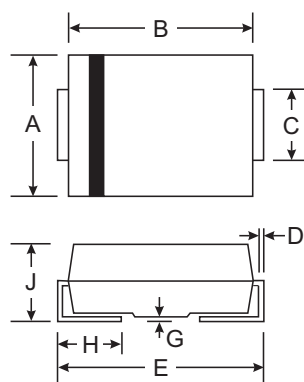
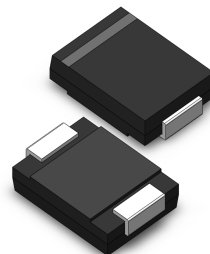
CURRENT: 10A

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)



SMC/DO-214AB		
Dim	Min	Max
A	5.59	6.22
B	6.60	7.11
C	2.75	3.18
D	0.15	0.31
E	7.75	8.13
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

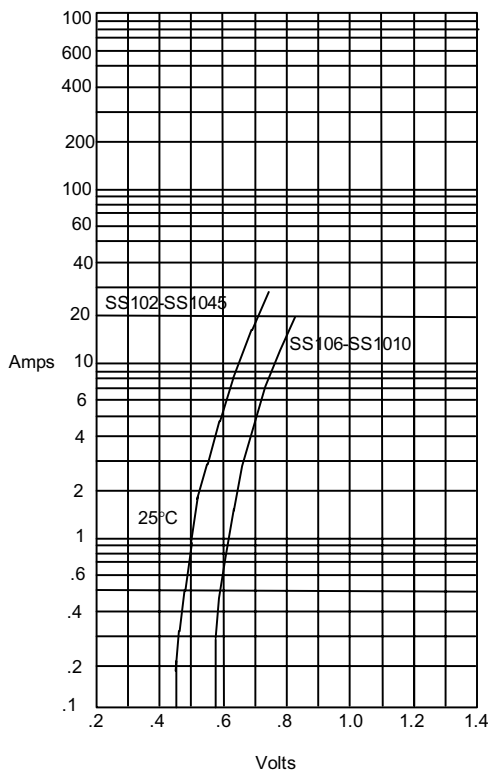
Characteristic	Symbol	SS102	SS103	SS1035	SS104	SS1045	SS106	SS108	SS1010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	35	40	45	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	24.5	28	31.5	42	56	70	V
Average Rectified Output Current @TL = 90°C	IO	10.0								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	FSM	250.0								A
Forward Voltage @IF = 10 A	VFM	0.65						0.85		V
Peak Reverse Current @TA = 25°C At Rated DC Blocking Voltage @TA = 100°C	RM	1.0 20								mA
Typical junction capacitance (Note1)	CJ	500								pF
Typical Thermal Resistance (Note 2)	RθJA	18								°C/W
Operating Temperature Range	Tj	-65 to +125								°C
Storage Temperature Range	TSTG	-65 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

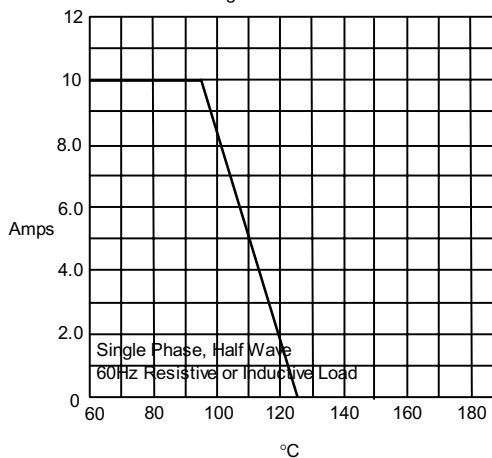
RATINGS AND CHARACTERISTIC CURVES SS102 THRU SS1010

Figure 1
Typical Forward Characteristics



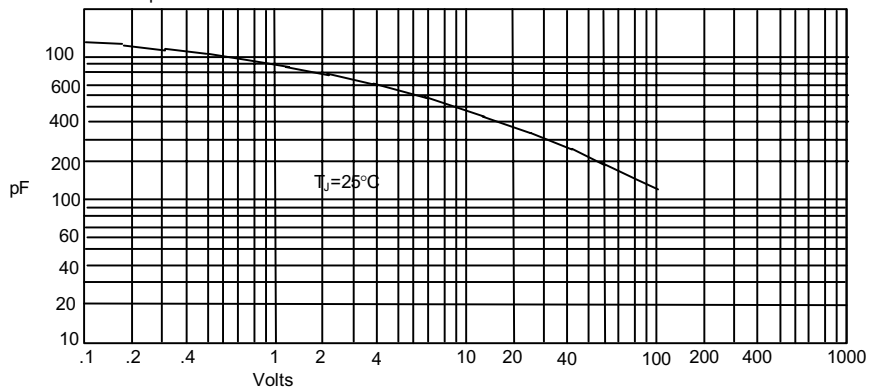
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes
versus Lead Temperature - C

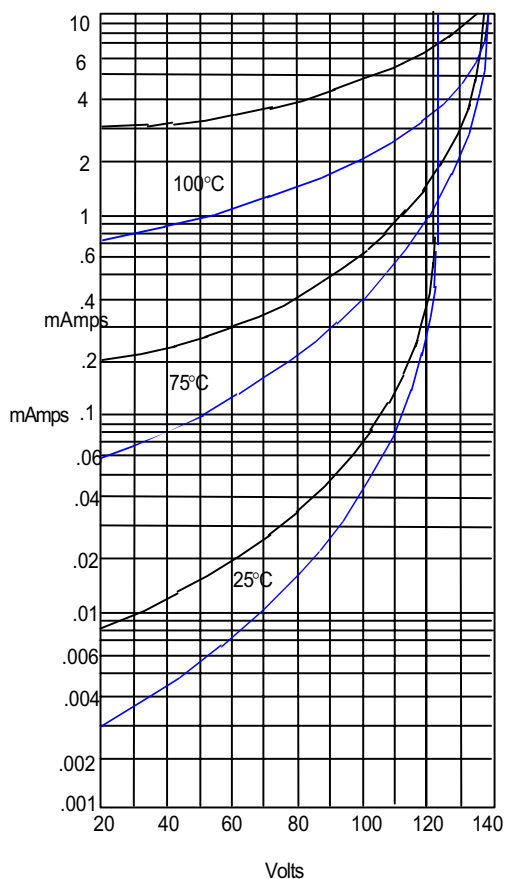
Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

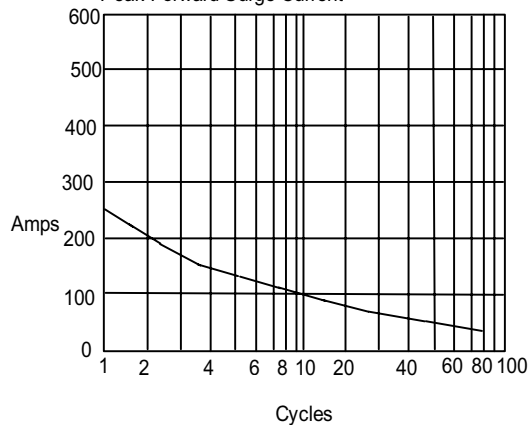
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Figure 4
Typical Reverse Characteristics



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

