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**SS102 THRU SS1010**

**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**

Reverse Voltage - 20 to 100 Volts Forward Current - 10.0 Amperes

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客户确认：

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部门	工程部	品保部	采购部
签名			
日期			

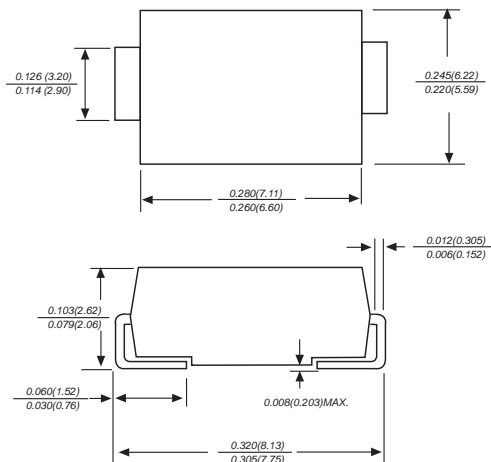


# SS102 THRU SS1010

**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**

Reverse Voltage - 20 to 100 Volts Forward Current - 10.0 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

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

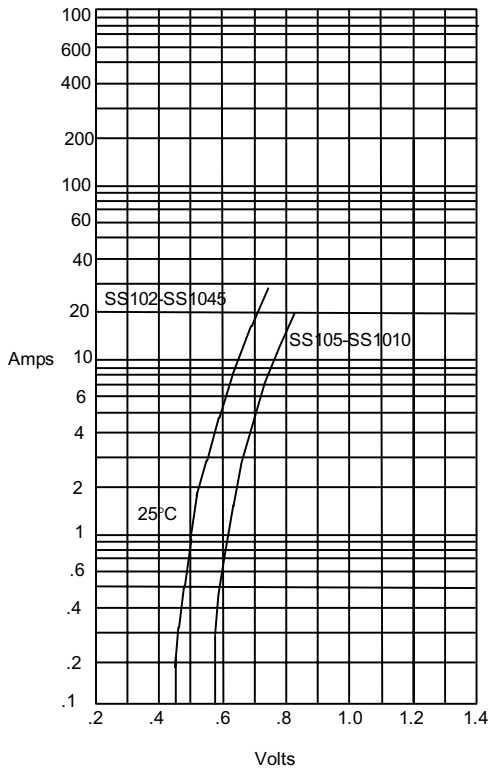
Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

TYPE NUMBER	SYMBOLS	SS102	SS103	SS1035	SS104	SS1045	SS106	SS108	SS1010	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 $T_L = 95^\circ C$	$I_{(AV)}$	10.0								Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	250.0								Amps
Maximum instantaneous forward voltage at 10.0A	$V_F$	0.65					0.85			Volts
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 100^\circ C$	$I_R$	1								mA
		20								
Typical junction capacitance (NOTE 1)	$C_J$	500								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

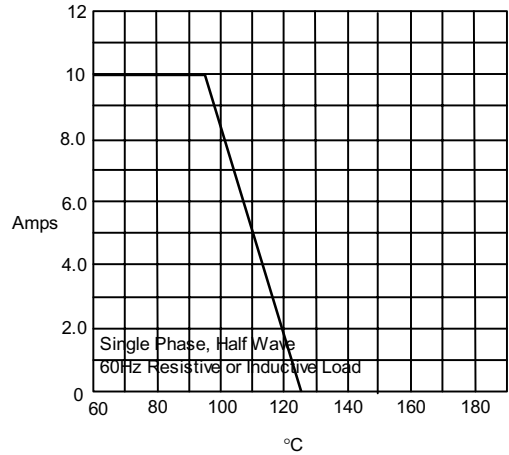
# RATINGS AND CHARACTERISTIC CURVES SS102 THRU SS1010

Figure 1  
Typical Forward Characteristics



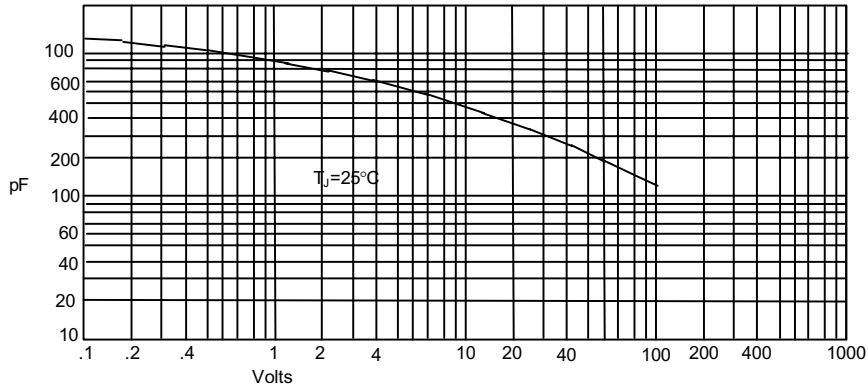
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



Average Forward Rectified Current - Amperes  
versus Lead Temperature - C

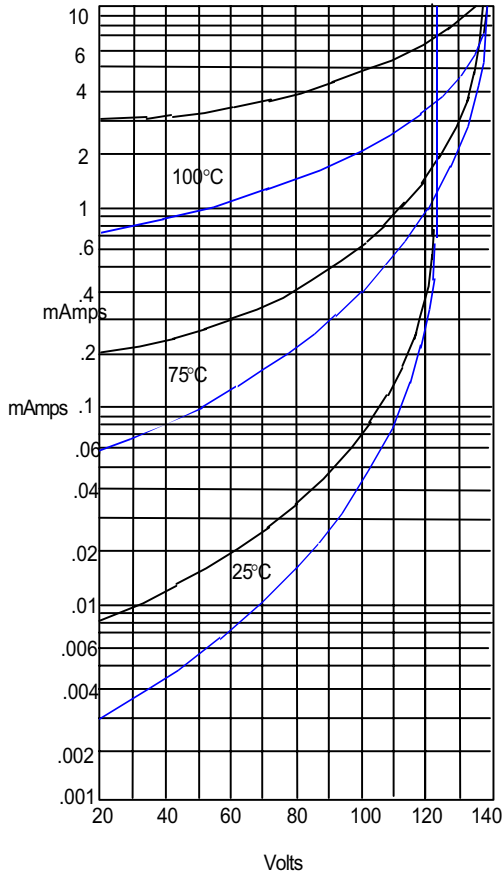
Figure 3  
Junction Capacitance



Junction Capacitance - pF versus  
Reverse Voltage - Volts

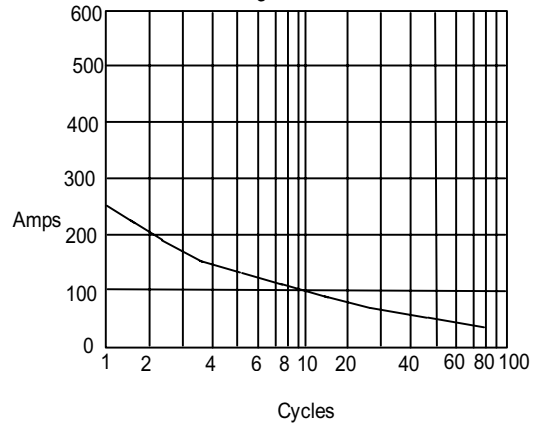
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Figure 4  
Typical Reverse Characteristics



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

SS102-SS1045 ———  
SS105-SS1010 ———