

SS1045 THRU SS10200

10.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.093 grams

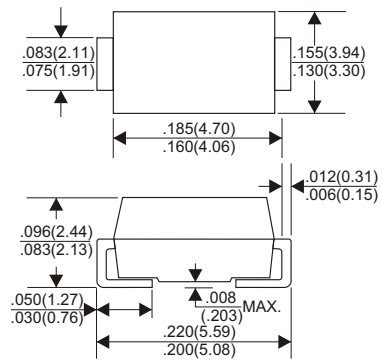
VOLTAGE RANGE

45 to 200 Volts

CURRENT

10.0Ampere

DO-214AA(SMB)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SS1045	SS1060	SS10100	SS10150	SS10200	UNITS	
Maximum Recurrent Peak Reverse Voltage	45	60	100	150	200	V	
Maximum RMS Voltage	32	42	70	105	140	V	
Maximum DC Blocking Voltage	45	60	100	150	200	V	
Maximum Average Forward Rectified Current	10.0					A	
See Fig. 1							
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	175					A	
Maximum Instantaneous Forward Voltage at 10.0A	0.55	0.7	0.85	0.92		V	
Maximum DC Reverse Current Ta=25°C	150		50			µA	
at Rated DC Blocking Voltage Ta=125°C	50		20			mA	
Typical Junction Capacitance (Note1)	400					pF	
Typical Thermal Resistance R JA (Note 2)	16					°C/W	
Operating Temperature Range Tj	—		-55 to +150		—		°C
Storage Temperature Range Tstg	-55 to +150					°C	

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead.

RATING AND CHARACTERISTIC CURVES (SS1045 THRU SS10200)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

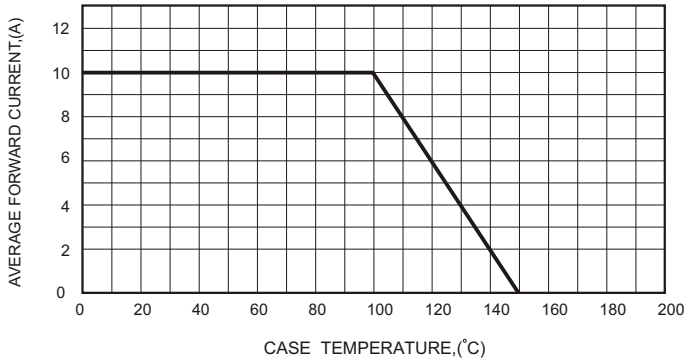


FIG.2-TYPICAL FORWARD CHARACTERISTICS

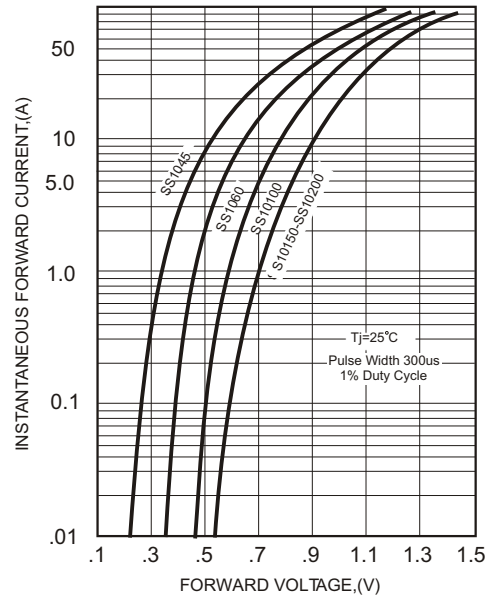


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

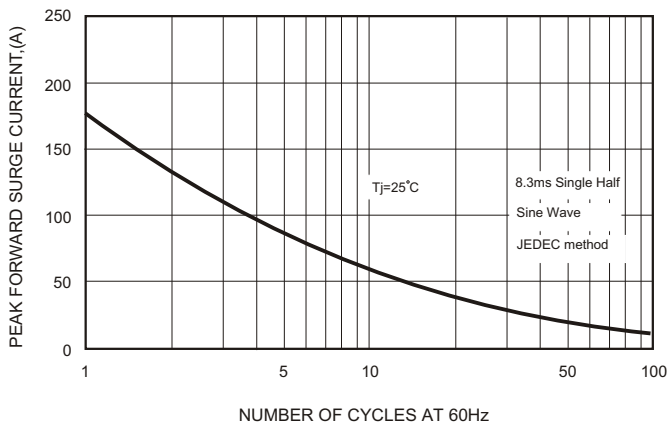


FIG.4-TYPICAL JUNCTION CAPACITANCE

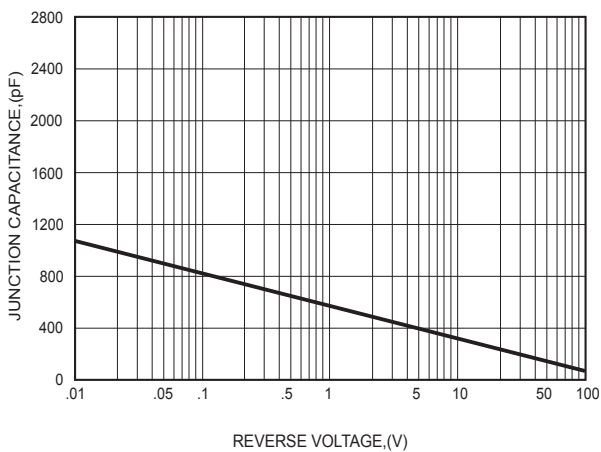
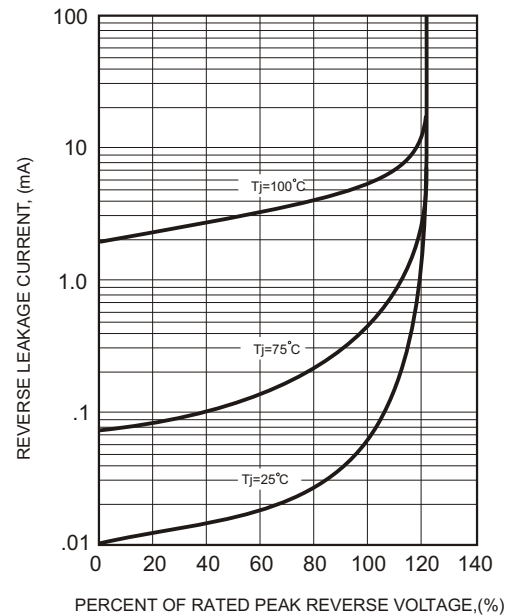


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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