

SS1045L THRU SS10100L

10.0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

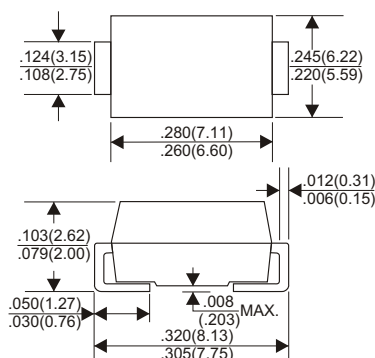
- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

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: 0.21 grams

VOLTAGE RANGE 45 - 100 Volts
CURRENT 10.0 Ampere

DO-214AB(SMC)



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	SS1045L	SS1060L	SS10100 L	UNITS
Maximum Recurrent Peak Reverse Voltage	45	60	100	V
Maximum RMS Voltage	32	42	70	V
Maximum DC Blocking Voltage	45	60	100	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)	150			A
Maximum Instantaneous Forward Voltage at 10.0A	0.45	0.55	0.67	V
Maximum DC Reverse Current Ta=25°C	100			µA
at Rated DC Blocking Voltage Ta=125°C	20			mA
Typical Junction Capacitance (Note1)	450			pF
Typical Thermal Resistance R JA (Note 2)	55			°C/W
Operating Temperature Range Tj	—	-55 to +150	—	°C
Storage Temperature Range Tstg	-55 to +150			°C

Note : 1.FR-4 PCB, 2oz.Copper.

2.Polyimide PCB, 2oz.Copper.Cathode pad dimensions 18.8mm x 14.4mm.Anode pad dimensions 5.6mm x 14.4mm.

RATING AND VCHARACTERISTIC CURVES SS1045L THRU SS10100L)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

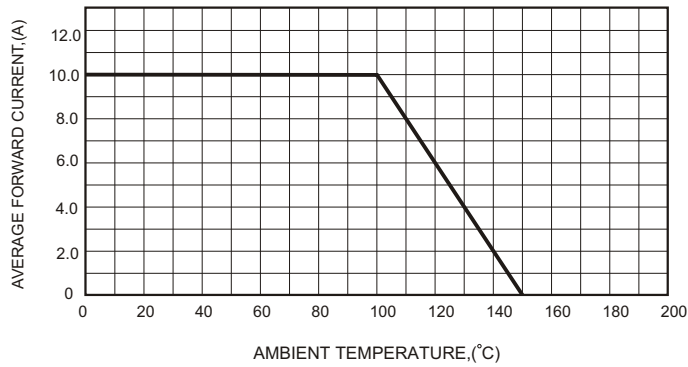


FIG.2-TYPICAL FORWARD CHARACTERISTICS

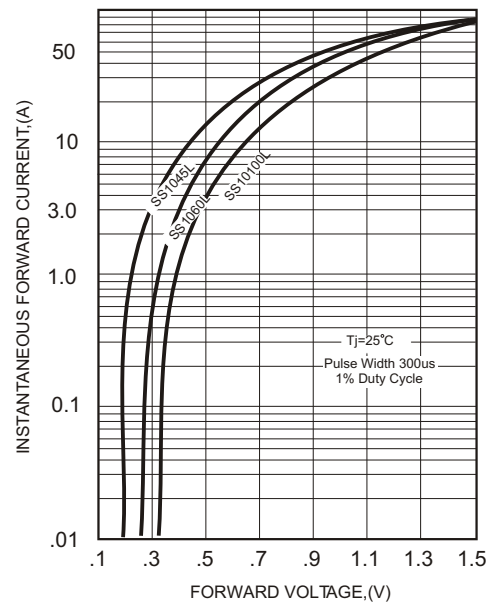


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

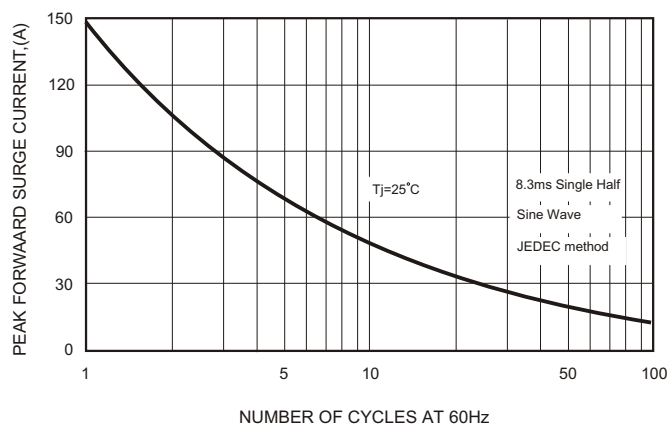


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

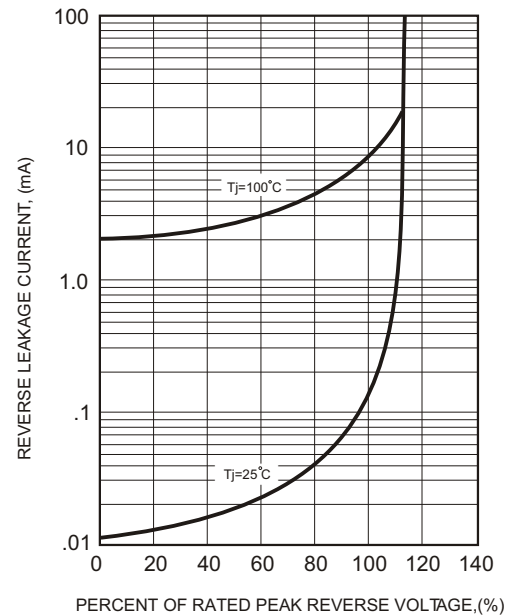


FIG.4-TYPICAL JUNCTION CAPACITANCE

