SS32L THRU SS310L

3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

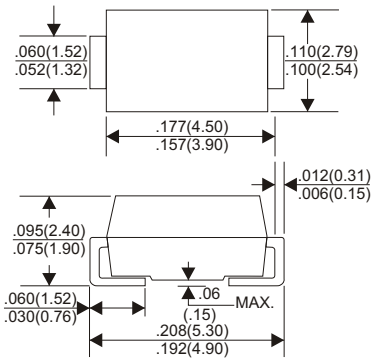
* Ideal for surface mount applications
* Easy pick and place
* Built-in strain relief
* Low forward voltage drop

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: 0.063 grams

VOLTAGE RANGE
20 to 100 Volts
CURRENT
3.0 Ampere

DO-214AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25℃ ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SS32L	SS33L	SS34L	SS35L	SS 36L	SS38L	SS310L	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum RMS Voltage	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=90℃	3.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	100							A
Maximum Instantaneous Forward Voltage at 3.0A	0.48			0.55		0.7		V
Maximum DC Reverse Current Ta=25℃	0.5							mA
at Rated DC Blocking Voltage Ta=100℃	10							mA
Typical Junction Capacitance (Note1)	110							pF
Typical Thermal Resistance R JA (Note 2)	50							℃/W
Operating Temperature Range Tj	-65— +125			-65— +150				℃
Storage Temperature Range TSTG	-65— +150							℃

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (SS32L THRU SS310L)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

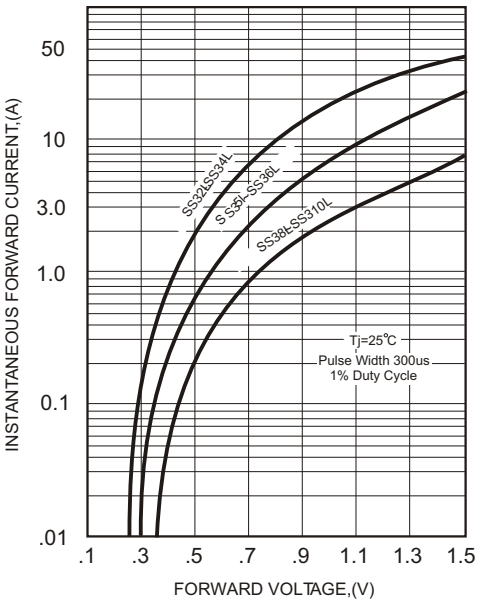


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

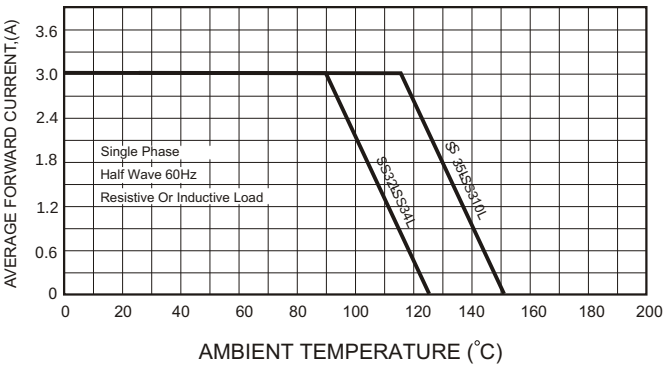


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

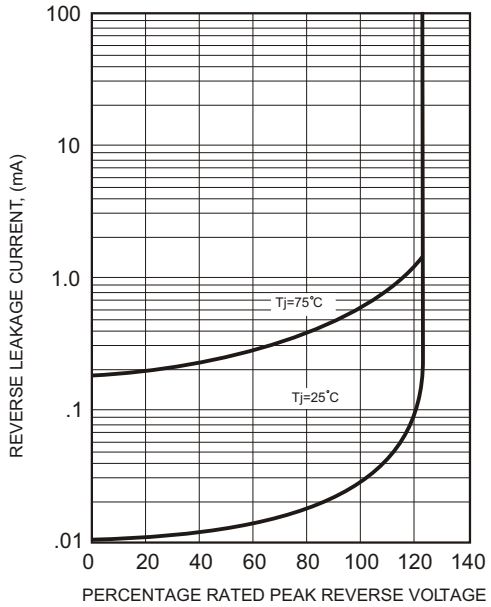


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

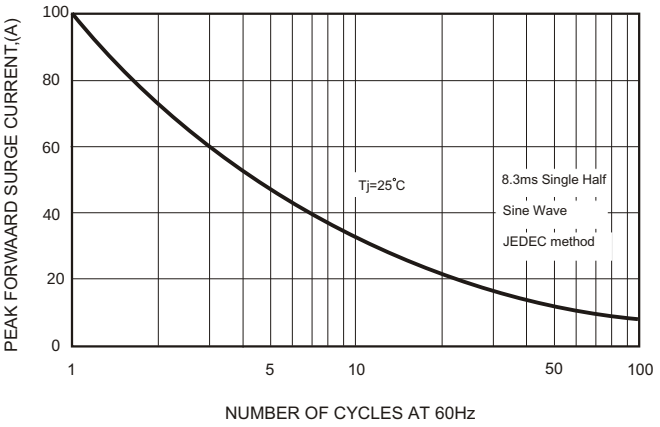


FIG.5-TYPICAL JUNCTION CAPACITANCE