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100 Volts

#### 5.0 Amperes

# **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

▲.005 

DO-214AC(SMA)

Dimensions in inches and (millimeters)

# **Maximum Ratings And Electrical Characteristics**

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

TYPE NUMBER		SS510L	UNITS
Maximum Recurrent Peak Reverse Voltage		100	V
Maximum RMS Voltage		70	V
Maximum DC Blocking Voltage		100	V
Maximum Average Forward Rectified C	Current		
See Fig. 1		5.0	A
Peak Forward Surge Current, 8.3 ms sing	gle half sine-wave superimposed on		
rated load (JEDEC method)		120	A
Maximum Instantaneous Forward Voltage at 5.0A		0.67	V
Maximum DC Reverse Current	Ta=25°C	0.1	mA
at Rated DC Blocking Voltage	Ta=125C	20	mA
Typical Junction Capacitance (Note1)		370	pF
Typical Thermal Resistance R JA (Note 2)		88	*C/W
Operating Temperature Range T <sub>J</sub>		-55 —150	°C
Storage Temperature Range Tsrg		-55 —150	°C

#### NOTES

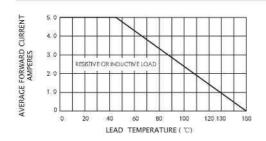
- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- Unit mounted on PC boord with 5.0mmX 5.0 mm (0.013 mm thick) copper pods os heot sink



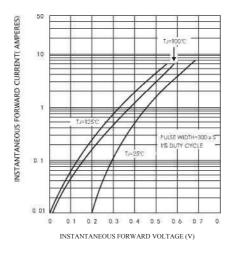
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#### RATING AND VHARACTERISTIC CURVES(SS510L)

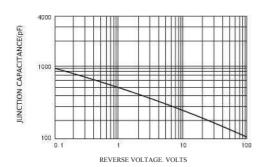
#### FIG.1-FORWARD CURRENT DERATING CURVE



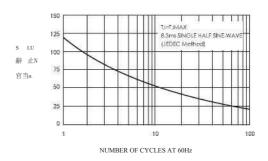
# FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



#### FIG.5-TYPICAL JUNCTION CAPACITANCE



# FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



### FIG.4-TYPICAL REVERSE CHARACTERISTICS

