





## **FEATURES**

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

## **MECHANICAL DATA**

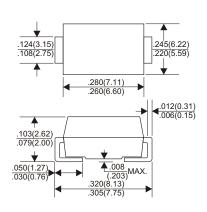
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.21 grams

## VOLTAGE RANGE 60 Volts

## **CURRENT**

5.0 Amperes

#### DO-214AB(SMC)



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25  $^{\circ}$ C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER		SS56L	UNITS
Maximum Recurrent Peak Reverse Voltage		60	V
Maximum RMS Voltage		42	V
Maximum DC Blocking Voltage		60	V
Maximum Average Forward Rectified (	Current		
See Fig. 1		5.0	A
Peak Forward Surge Current, 8.3 ms s	single half sine-wave		
superimposed on rated load (JEDEC method)		120	A
Maximum Instantaneous Forward Voltage at 5.0A		0.55	V
Maximum DC Reverse Current	Ta=25 ℃	0.15	mA
at Rated DC Blocking Voltage	Ta=125 ℃	30	mA
Typical Junction Capacitance (Note1)		370	pF
Typical Thermal Resistance R JA (Note 2)		55	℃/W
Operating Temperature Range T <sub>J</sub>		-55 <del>-+</del> 125	°C
Storage Temperature Range Tstg		-55 <del>-+</del> 150	°C

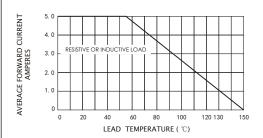
#### NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Unit mounted on PC board with 5.0mm× 5.0 mm (0.013 mm thick) copper pads as heat sink

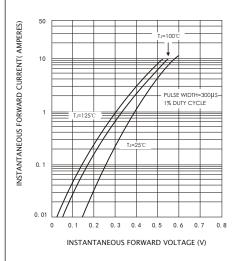
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## RATING AND VHARACTERISTIC CURVES(SS56L)

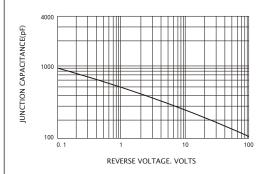
#### FIG.1-FORWARD CURRENT DERATING CURVE



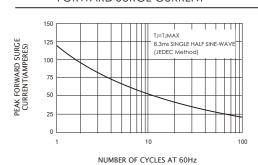
# FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



### FIG.5-TYPICAL JUNCTION CAPACITANCE



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



#### FIG.4-TYPICAL REVERSE CHARACTERISTICS

