

FEATURES

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

MECHANICAL DATA

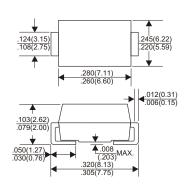
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE 40 Volts

CURRENT

5.0 Amperes

DO-214AB(SMC)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER		SS54L	UNITS
Maximum Recurrent Peak Reverse Voltage		40	V
Maximum RMS Voltage		28	V
Maximum DC Blocking Voltage		40	V
Maximum Average Forward Rectified	Current		
See Fig. 1		5.0	А
Peak Forward Surge Current, 8.3 ms s	single half sine-wave		
superimposed on rated load (JEDEC method)		120	А
Maximum Instantaneous Forward Voltage at 5.0A		0.47	V
Maximum DC Reverse Current	Ta=25°C	1.0	mA
at Rated DC Blocking Voltage	Ta=100°C	50	mA
Typical Junction Capacitance (Note1)		380	pF
Typical Thermal Resistance R JA (Note 2)		88	°C/W
Operating Temperature Range T _J		-55 +125	°C
Storage Temperature Range Tsтc		-55 	°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 CHARACTERISTIC CURVES (SS54L)

FIG.1-FORWARD CURRENT DERATING CURVE

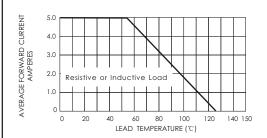


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

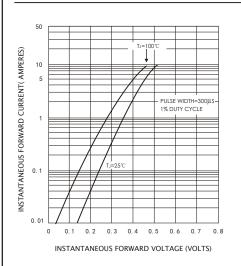


FIG.5-TYPICAL JUNCTION CAPACITANCE

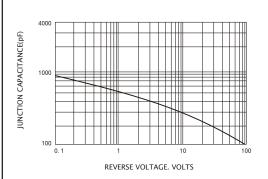


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

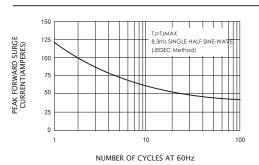


FIG.4-TYPICAL REVERSE CHARACTERISTICS

