Features

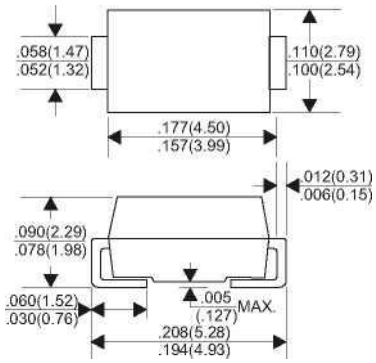
* Ideal for surface mount applications
* Easy pick and place
* Built-in strain relief
* Low forward voltage drop

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
40 Volts
CURRENT
2.0 Ampere

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	SS24L	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	2.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50	A
Maximum Instantaneous Forward Voltage at 2.0A	0.46	V
Maximum DC Reverse Current Ta=25 C	0.2	mA
at Rated DC Blocking Voltage Ta=125 °C	50	mA
Typical Junction Capacitance (Note1)	170	pF
Typical Thermal Resistance R JA (Note 2)	88	°C/W
Operating Temperature Range TJ	-55 to+125	°C
Storage Temperature Range TSTG	-55 to+150	°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.2
. P.C.B. mounted with 0.2" *x* 0.2" (5.0 mm *x* 5.0 mm) copper pod oreos

RATING AND CHARACTERISTIC CURVES (SS24L)

FIG.l-FORWARD CURRENT DERATING CURVE

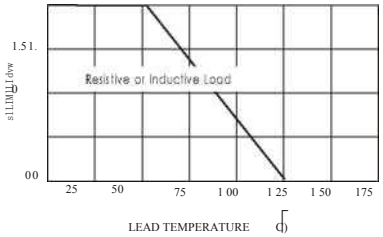


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

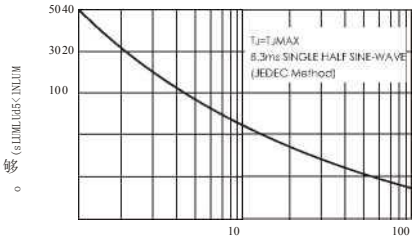


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

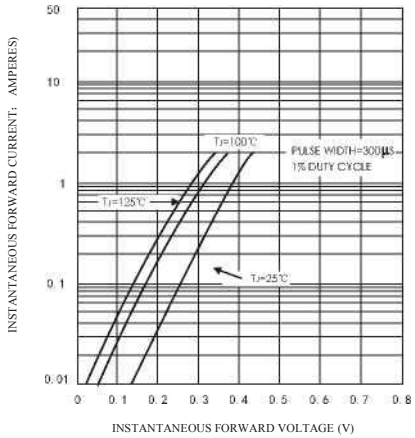


FIG.4-TYPICAL REVERSE CHARACTERISTICS

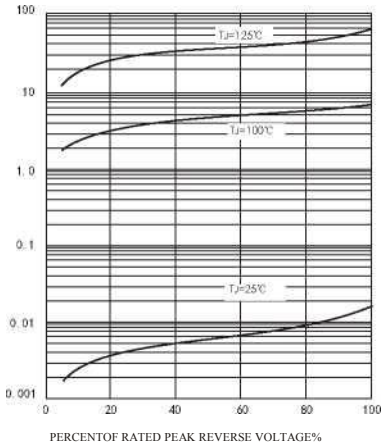


FIG.5-TYPICAL JUNCTION CAPACITANCE