

## 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: 0.093 grams

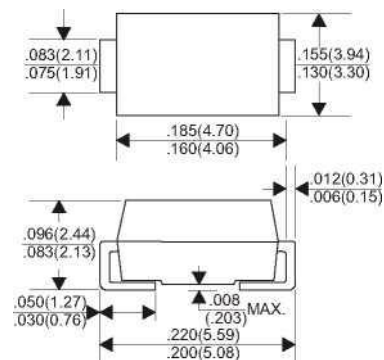
## VOLTAGE RANGE

40 Volts

## CURRENT

2.0 Ampere

DO-214AA(SMB)



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 °C ambient temperature unless otherwise 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)	70	°C/W
Operating Temperature Range Tj	— -55 to+125 —	°C
Storage Temperature Range Tstg	-55 to+150	°C

NOTES:

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 pad oreos

## RATING AND CHARACTERISTIC CURVES (SS24L)

FIG.1-FORWARD CURRENT DERATING CURVE  
FIG.2-MAXIMUM NON-REPETITIVE PEAK

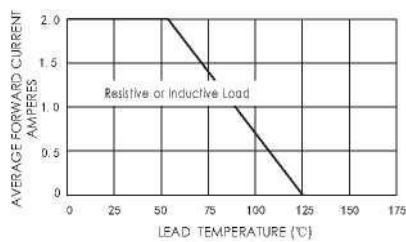


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

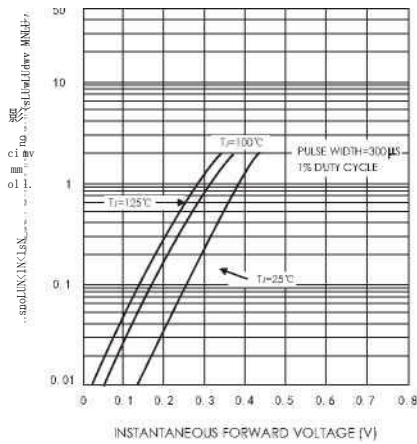
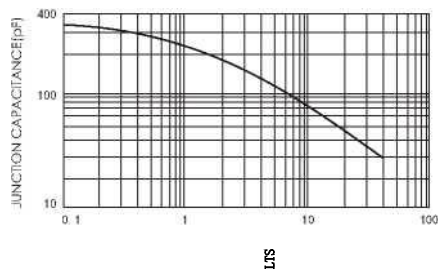


FIG.5-TYPICAL JUNCTION CAPACITANCE



FORWARD SURGE CURRENT

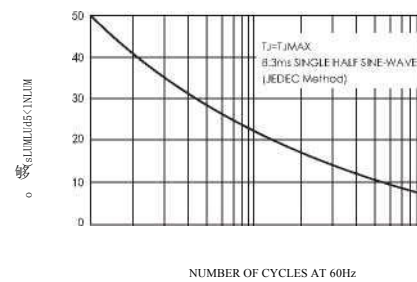


FIG.4-TYPICAL REVERSE CHARACTERISTICS

