



YEA SHIN TECHNOLOGY CO., LTD

S3AB THRU S3MB

Surface Mount Rectifiers

Voltage 50 to 1000Volts Current 3.0Amperes



FEATURES

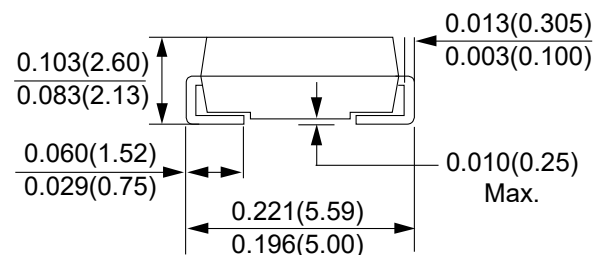
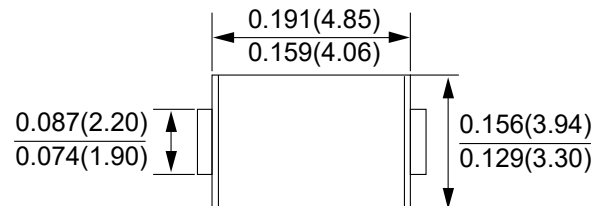
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- glass passivated junction
- High temperature soldering : 260 °C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

MECHANICAL DATA

- Case : DO-214AA(SMB)
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Standard packaging : 12mm tape (EIA-481)

SMB/DO-214AA

Unit:inch(mm)



Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I_F	3							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	100							A
Maximum Instantaneous Forward Voltage IF=3A @ 25°C	V_F	1.2							V
Maximum DC Reverse Current @ TJ=25°C at Rated DC Blocking Voltage @ TJ=125°C	I_R	5 250							uA
Typical Thermal Resistance	$R_{\theta JA}$	100							°C/W
Typical Junction Capacitance (NOTE 1)	C_J	22							pF
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							°C

NOTES :

1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC

DEVICE CHARACTERISTICS

S3AB THRU S3MB

FIG. 1-Typical Forward Current Derating Curve

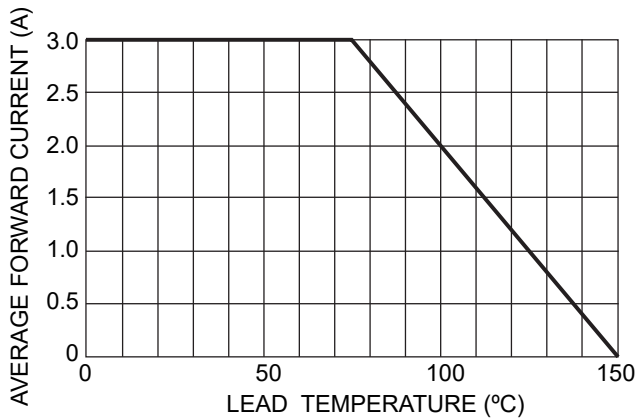


FIG. 2-Typical Forward Characteristics

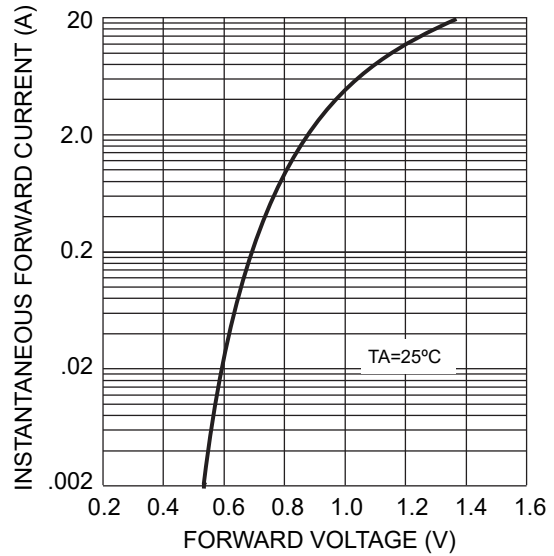


FIG. 3-Maximum Non-Repetitive Forward Surge Current

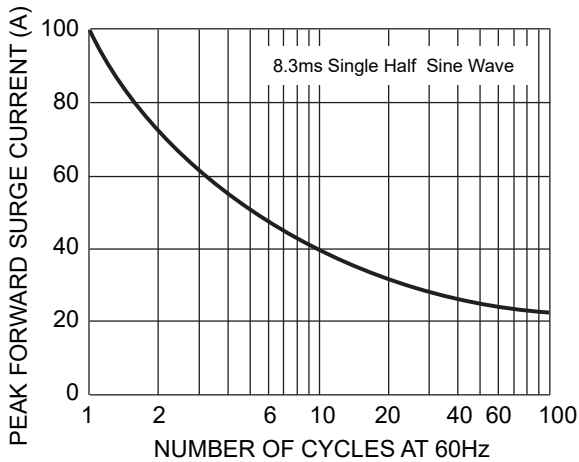


FIG. 4-Typical Reverse Characteristics

