YEA SHIN TECHNOLOGY CO. , LTD

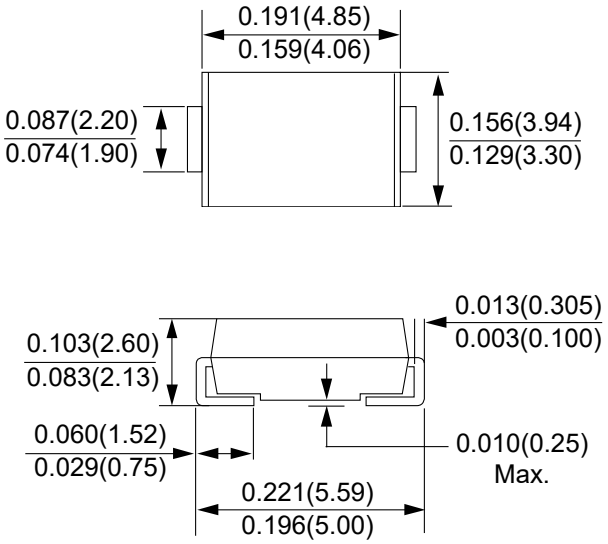
S3MB-A

Surface Mount Rectifiers
Voltage 1000Volts Current 3.0Amperes

FEATURES

- Glass Passivated Die Construction
- Low forward voltage drop
- High current capability
- High reliability
- Metal silicon junction,majority carrier conduction
- Plastic Case Material has UL Flammability Classication Rating 94V-0

SMB / DO-214AA Unit:inch(mm)



MECHANICAL DATA

- Case：DO-214AA(SMB)
- Terminals：Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity：Color band dentes cathode end
- Mounting Position：Any

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

Parameter	Symbol	S3MB-A	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	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

S3MB-A

FIG. 1-Typical Forward Current Derating Curve

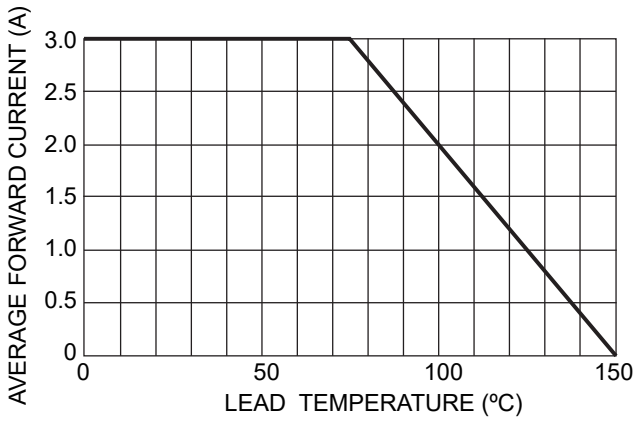


FIG. 2-Typical Forward Characteristics

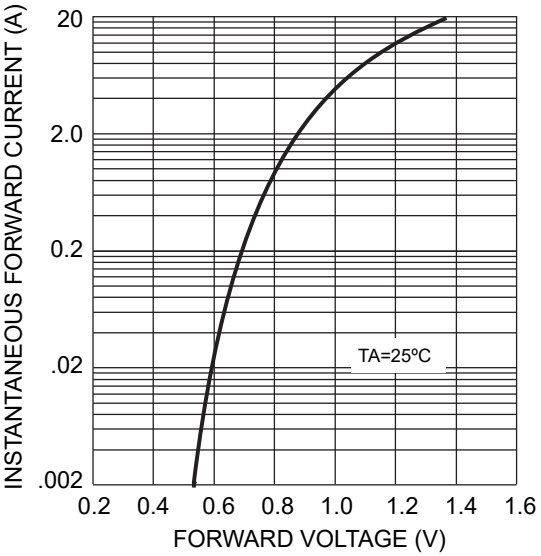


FIG. 3-Maximum Non-Repetitive Forward Surge Current

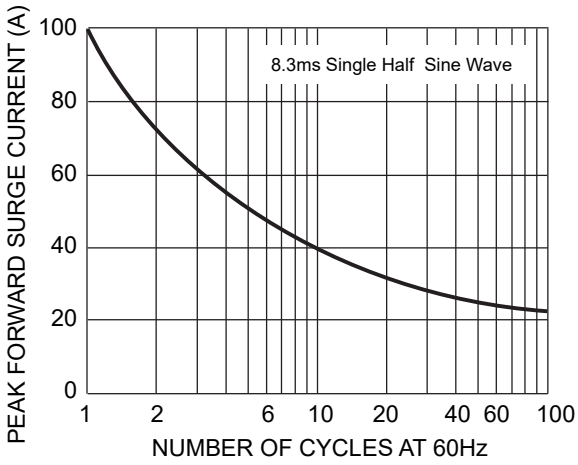


FIG. 4-Typical Reverse Characteristics