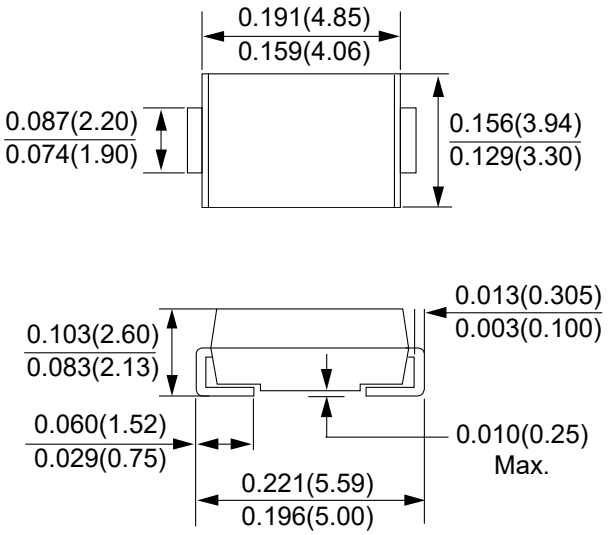
**YEA SHIN TECHNOLOGY CO. , LTD** SR32-A THRU SR310-A

# Surface Mount Schottky Barrier Rectifiers
# Voltage 20 to 100Volts Current 3.0Amperes

## FEATURES

- High current capability
- High surge current capability
- Low reverse current
- AEC-Q101 qualified

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




## MECHANICAL DATA

- Case：DO-214AA(SMB)
- Case Material：Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals：Lead Free Plating (Tin Finish.) Solderable per MIL STD 202, Method 208
- Polarity：Cathode Band

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

| Parameter | Symbol | SR32-A | SR33-A | SR34-A | SR35-A | SR36-A | SR38-A | SR310-A | Unit |
|---|---|---|---|---|---|---|---|---|---|
| Maximum Repetitive Peak Reverse Voltage | $V_{RRM}$ | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 14 | 21 | 28 | 35 | 42 | 56 | 70 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| Maximum Average Forward Rectified Current | $I_F$ | 3 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load | $I_{FSM}$ | 80 | | | | | | | A |
| Maximum Instantaneous Forward Voltage IF=3A @ 25°C | $V_F$ | 0.50 | | | 0.75 | | 0.85 | | V |
| Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C | $I_R$ | 0.5<br>20 | | | | | | | mA |
| Typical Junction Capacitance (NOTE 1) | $C_J$ | 150 | | | | | 100 | | pF |
| Typical Thermal Resistance | $R_{\theta JC}$ | 35 | | | | | | | °C/W |
| Operating Temperature Range | $T_J$ | -55 to +125 | | | | | -55 to +150 | | °C |
| Storage Temperature Range | $T_{STG}$ | -55 to +150 | | | | | | | °C |

NOTES：

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

# DEVICE CHARACTERISTICS

## SR32-A THRU SR310-A

FIG. 1-Typical Forward Current Derating Curve

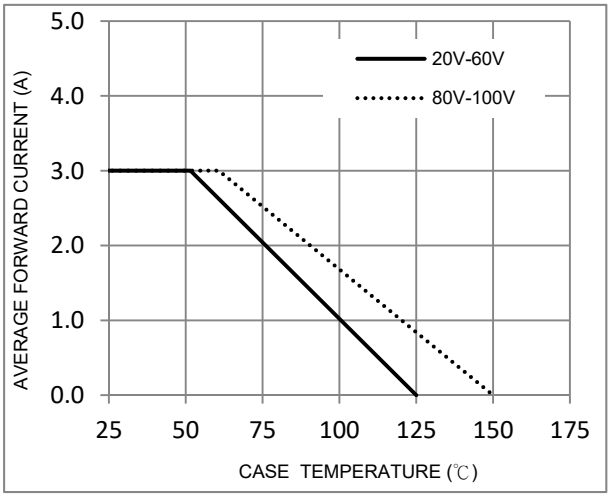



FIG. 2-Typical Forward Characteristics

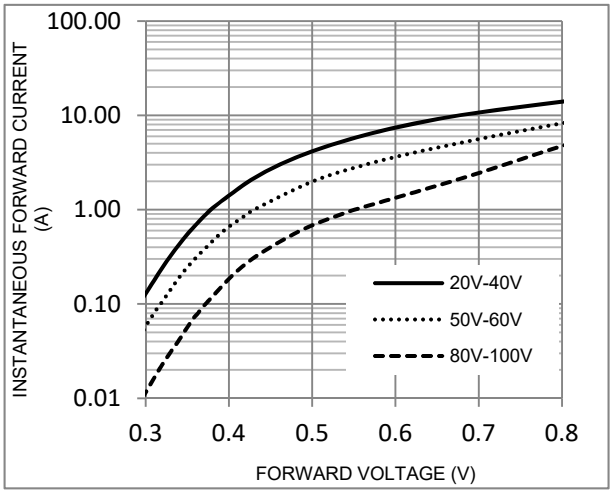



FIG. 3-Maximum Non-Repetitive Forward Surge Current

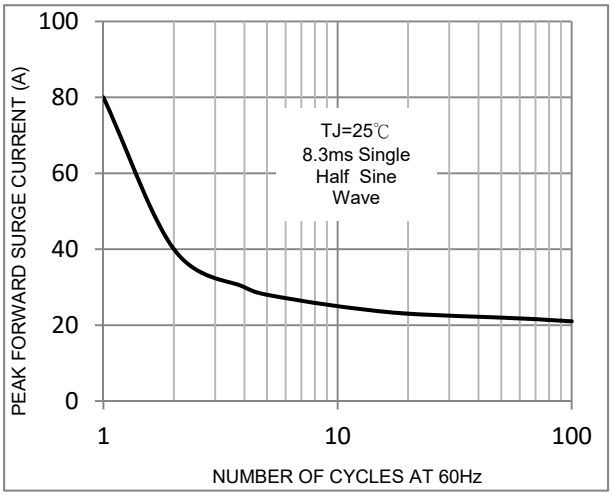



FIG. 4-Typical Reverse Characteristics

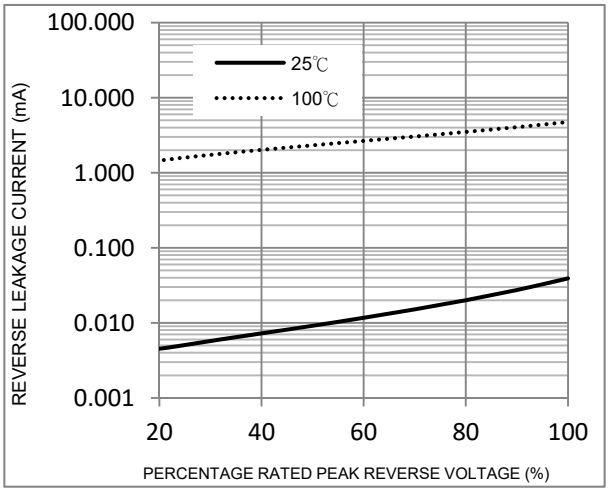



FIG. 5-Typical Junction Capacitance