



YEA SHIN TECHNOLOGY CO., LTD

SK32-A THRU SK320-A

Surface Mount Schottky Barrier Rectifiers
Voltage 20 to 200Volts Current 3.0Amperes

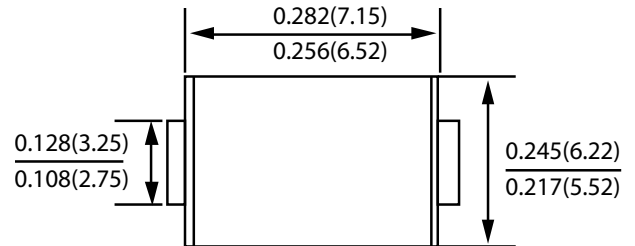


FEATURES

- Low profile package
- Ideal for automated placement
- Guard Ring for over voltage protection
- Low forward voltage drop
- AEC-Q101 qualified

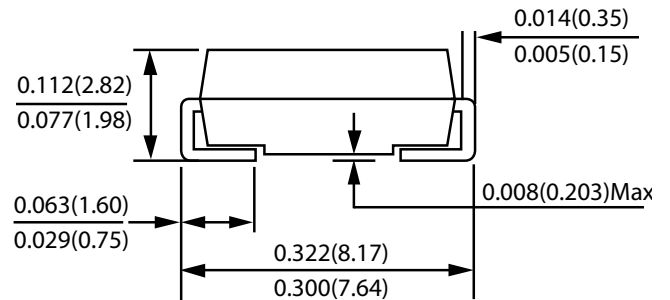
SMC/DO-214AB

Unit:inch(mm)



MECHANICAL DATA

- Case : DO-214AB (SMC)
- 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	SK32-A	SK33-A	SK34-A	SK35-A	SK36-A	SK38-A	SK310-A	SK315-A	SK320-A	Unit	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	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	0.55		0.70		0.85		0.90		0.92	V	
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.5					10					mA
Typical Junction Capacitance (NOTE1)	C_j	150					95		80		pF	
Typical Thermal Resistance	$R_{\theta Ja}$ $R_{\theta Jc}$	55					25					°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

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FIG. 1-Typical Forward Current Derating Curve

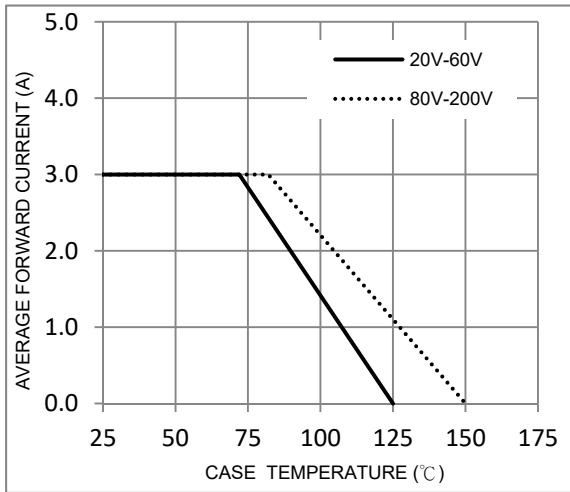


FIG. 2-Typical Forward Characteristics

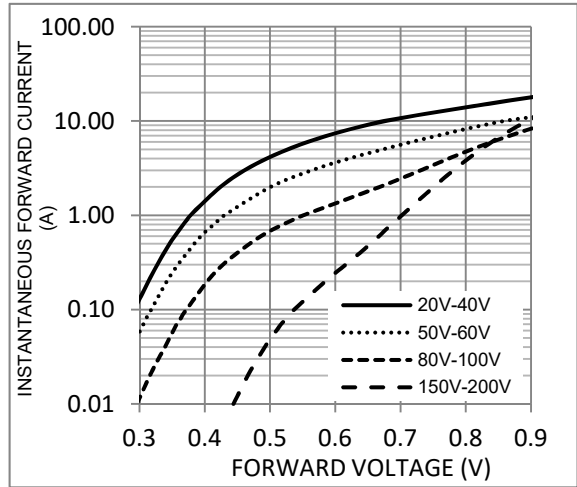


FIG. 3-Maximum Non-Repetitive Forward Surge Current

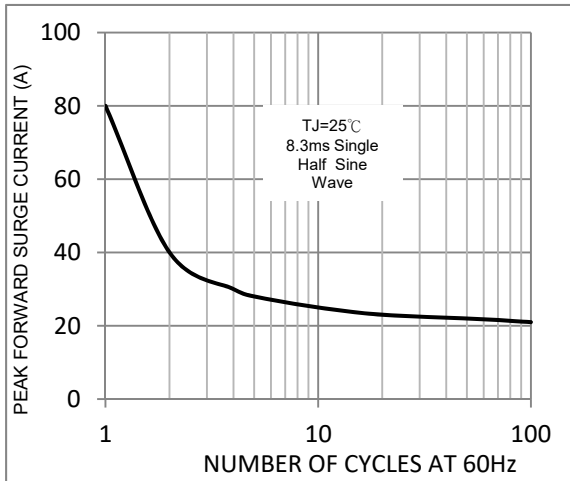


FIG. 4-Typical Reverse Characteristics

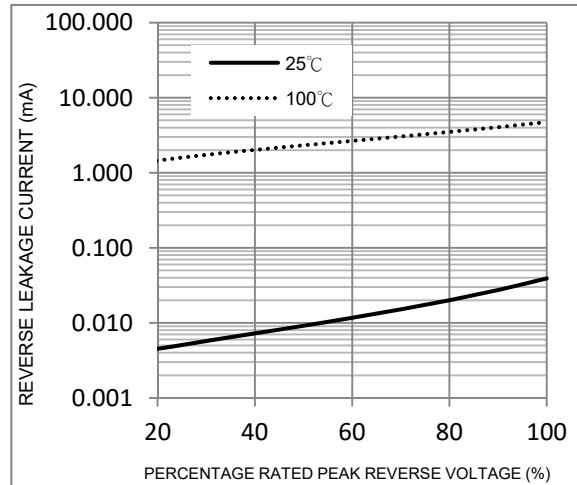


FIG. 5-Typical Junction Capacitance

