



SK32A THRU SK320A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: 20 to 200 VOLTS
FORWARD CURRENT: 3.0 AMPERE

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Low power loss, high efficiency
- High current capacity
- Suffix " H " indicated Halogen-free part, ex.SK32AH

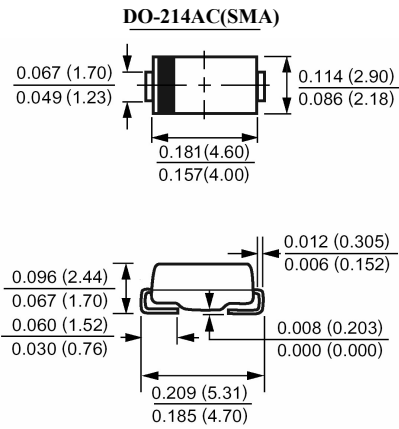
MECHANICAL DATA

Case : Molded plastic, DO-214AC(SMA)

Terminals : Solder plated, solderable per MIL-STD-750, method 2026 guaranteed

Polarity : Color band denotes cathode end

Packaging: 12mm tape per EIA STD RS-481



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Parameter	Symbols	SK32A	SK33A	SK34A	SK345A	SK35A	SK36A	SK38A	SK310A	SK315A	SK320A	Units	
Maximum Recerent Peak Reverse Voltage	V_{RRM}	20	30	40	45	50	60	80	100	150	200	Volts	
Maximum RMS Voltage	V_{RMS}	14	21	28	31.5	35	42	56	71	105	140	Volts	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	50	60	80	100	150	200	Volts	
Maximum Average Forward Rectified Current at T_L (See Fig. 1)	$I_{(AV)}$	3.0										Amp	
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80.0										Amp	
Maximum Forward Voltage at 3.0A (Note 1)	V_F	0.55			0.70		0.85		0.95			Volts	
Maximum Reverse Current at $T_A=25^\circ\text{C}$	I_R	0.5										mAmp	
at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$		20.0											
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55.0										$^\circ\text{C/W}$	
	$R_{\theta JL}$	17.0											
Operating Junction Temperature Range	T_J	-65 to +125					-65 to +150						$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-65 to +150										$^\circ\text{C}$	

NOTES:

1- Pulse test: 300µs pulse width, 1% duty cycle

2- P.C.B. mounted with 0.55 x 0.55" (14 x 14mm) Copper Pad Areas



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RATINGS AND CHARACTERISTIC CURVES

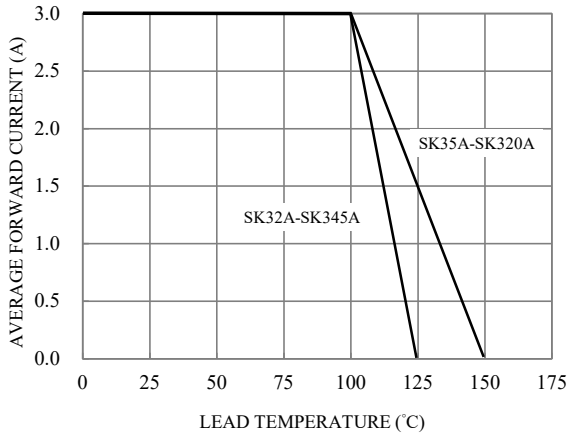


Fig.1-FORWARD CURRENT DERATING CURVE

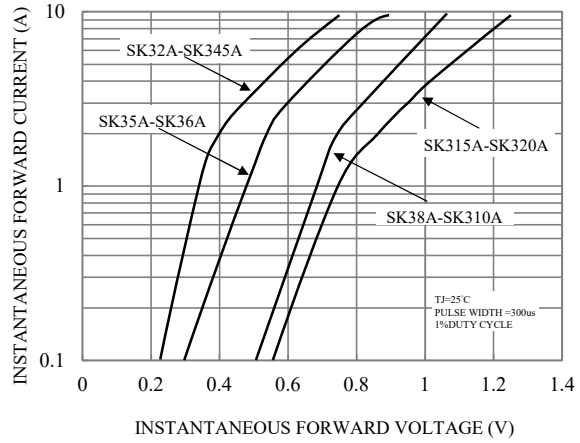


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

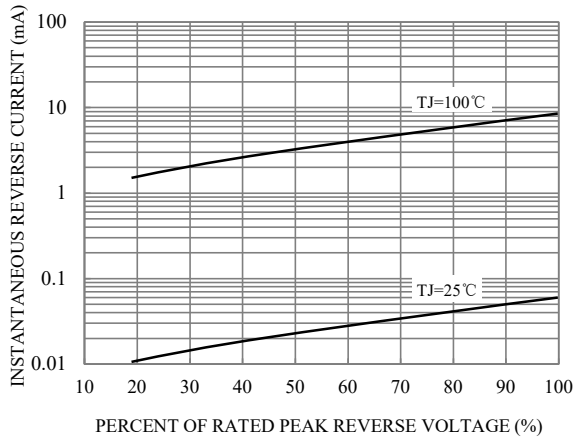


Fig.3-TYPICAL REVERSE CHARACTERISTICS

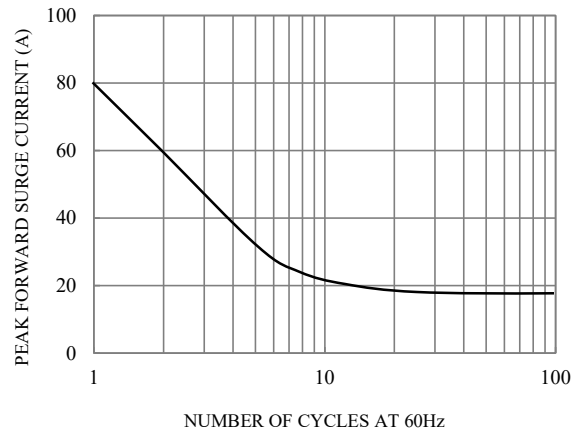


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT