



SK32CH THRU SK320CH

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE: 20 to 200 VOLTS

FORWARD CURRENT: 3.0 AMPERE

FEATURES

- For surface mounted applications
- High current capacity
- Low profile package
- High surge capacity
- Suffix " H " indicated Halogen-free part, ex.SK32CH

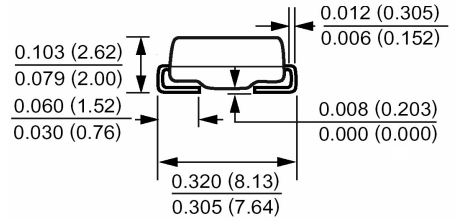
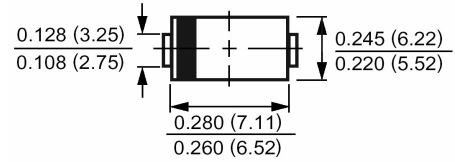
MECHANICAL DATA

Case : Molded plastic, DO-214AB(SMC)

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

Polarity : Color band denotes cathode end

DO-214AB(SMC)



Dimensions in inch and (millimeter)

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	SK32CH	SK34CH	SK36CH	SK38CH	SK310CH	SK315CH	SK320CH	Units
		SK32	SK34	SK36	SK38	SK310	SK315	SK320	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	14	28	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at T_L (See Fig. 1)	$I_{(AV)}$	3							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	70							Amp
Maximum Forward Voltage at 3.0A (Note 1)	V_F	0.55	0.75	0.85	0.95				Volts
Maximum Reverse Current at $T_J=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_J=100^\circ\text{C}$	I_R	0.5	10.0	0.1			5.0	mAmp	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55.0							°C/W
	$R_{\theta JL}$	17.0							
Operating Junction Temperature Range	T_J	-55 to +125			-55 to +150				°C
Storage Temperature Range	T_{stg}	-55 to +150							°C

NOTES:

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

2- Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas



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RATINGS AND CHARACTERISTIC CURVES

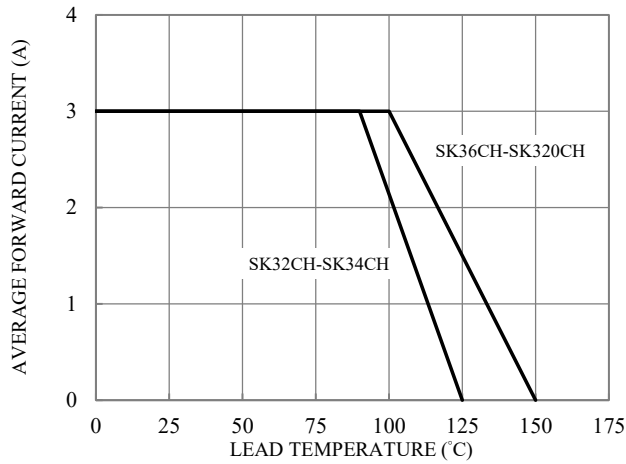


Fig.1-FORWARD CURRENT DERATING CURVE

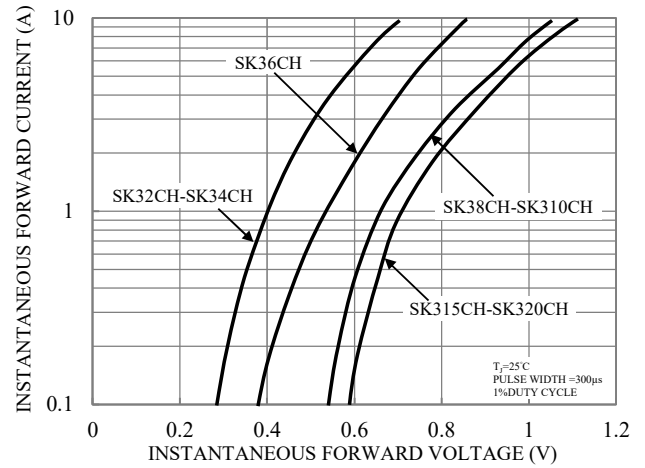


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

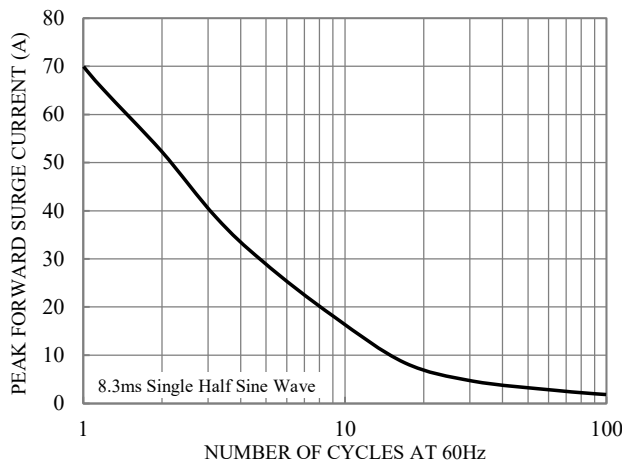


Fig.3-MAXIMUM NON-REPETITIVE SURGE CURRENT

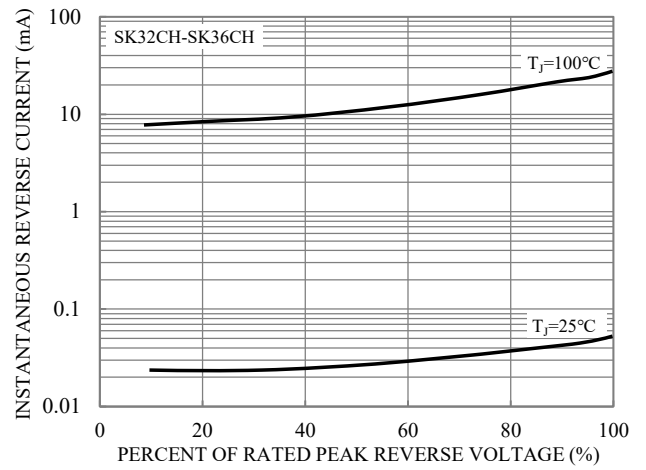


Fig.4-TYPICAL REVERSE CHARACTERISTICS

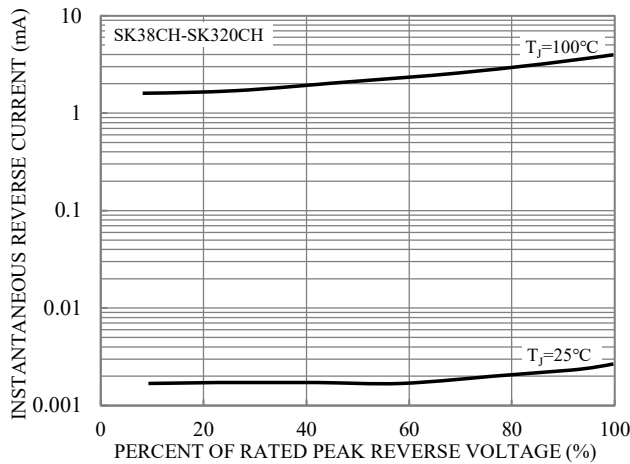


Fig.5-TYPICAL REVERSE CHARACTERISTICS