



SK14BH THRU SK120BH

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE: 40 to 200 VOLTS

FORWARD CURRENT: 1.0 AMPERE

FEATURES

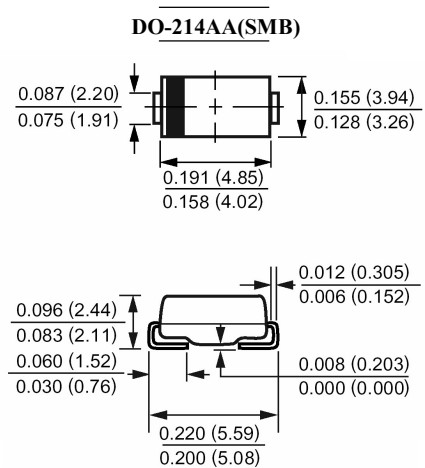
- High current capacity
- Low power loss, high efficiency
- For surface mounted applications
- High surge capacity
- Low power loss, high efficiency
- Suffix "H" indicates Halogen-free parts, ex. SK14BH

MECHANICAL DATA

Case : Molded plastic, DO-214AA(SMB)

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

Polarity : Color band denotes cathode end



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	SK14BH	SK16BH	SK110BH	SK115BH	SK120BH	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	60	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	28	42	70	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	40	60	100	150	200	Volts
Maximum Average Forward Rectified Current at T_L (See Fig. 1)	$I_{(AV)}$	1.0					Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30					Amp
Maximum Forward Voltage at 1.0A (Note 1)	V_F	0.55	0.70	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		0.2		mAmp	
		10		5			
Typical Thermal Resistance from Junction to Lead (Note 2)	$R_{\theta JL}$	25.0					°C/W
Operating Junction Temperature Range	T_J	-55 to +125		-55 to +150		°C	
Storage Temperature Range	T_{stg}	-55 to +125		-55 to +150		°C	

NOTES:

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

2- P.C.B. mounted with 0.28 x 0.28" (7.0 x 7.0mm) Copper Pad Areas



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RATINGS AND CHARACTERISTIC CURVES

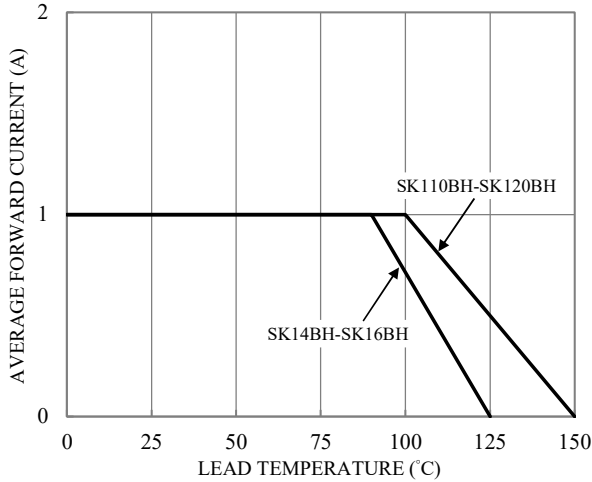


Fig.1-FORWARD CURRENT DERATING CURVE

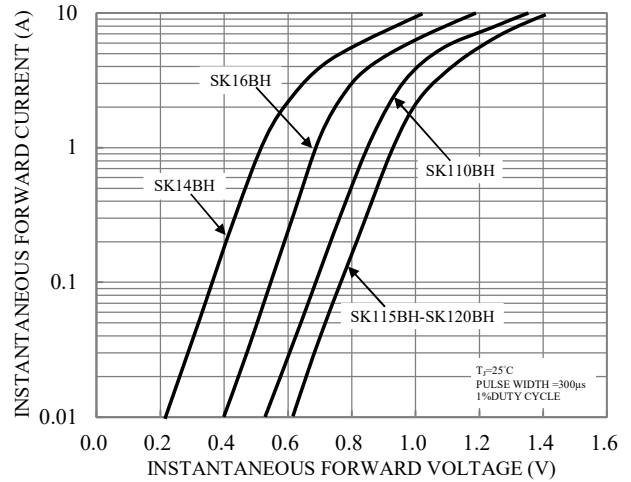


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

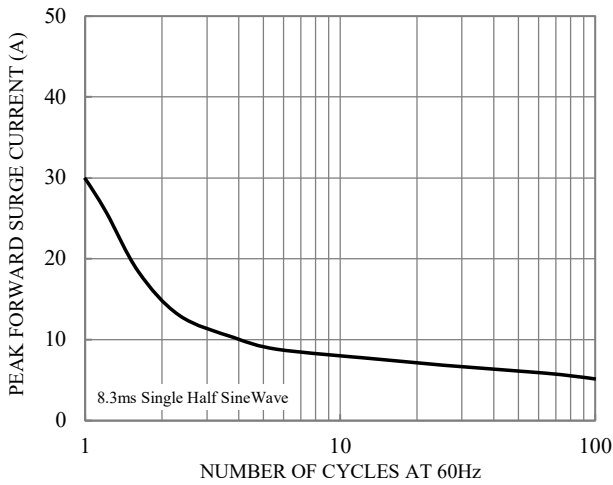


Fig.3-MAXIMUM NON-REPETITIVE SURGE CURRENT

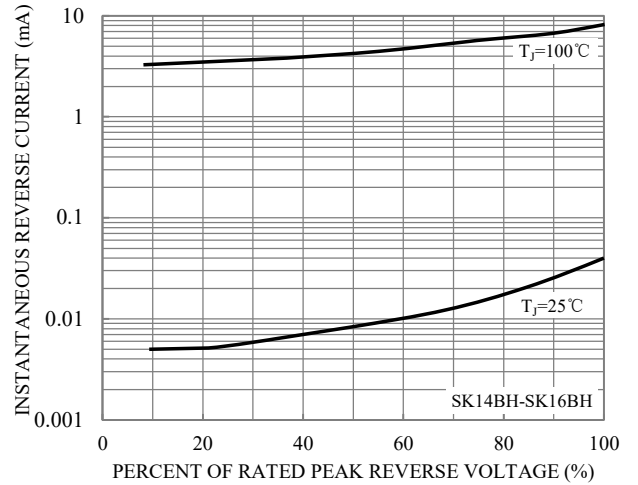


Fig.4-TYPICAL REVERSE CHARACTERISTICS

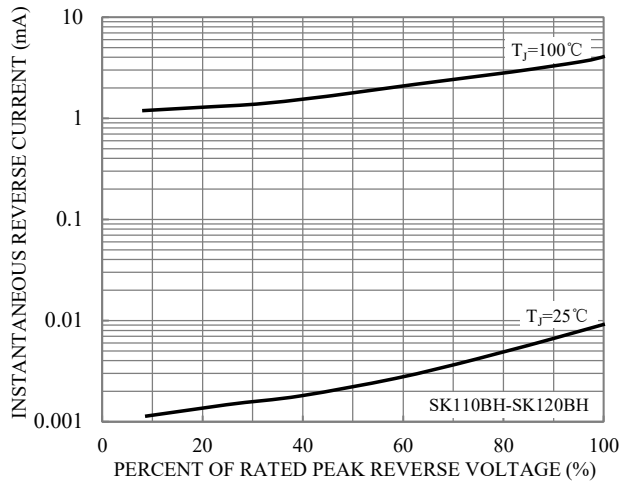


Fig.5-TYPICAL REVERSE CHARACTERISTICS