SK22BH THRU SK220BH

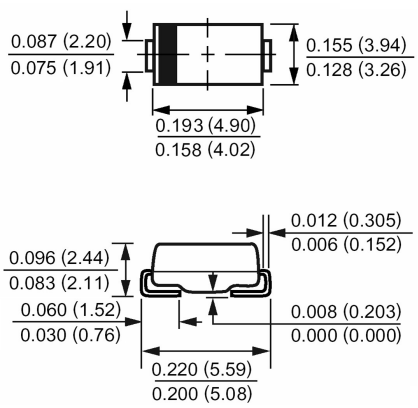
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE: **20 to 200 VOLTS**
FORWARD CURRENT: **2.0 AMPERE**

FEATURES

- Plastic package has Underwriters Laboratory Flammabiliy Classification 94V-O
- For surface mounted applications
- High current capacity
- Low profile package
- Suffix "H" indicates Halogen-free parts, ex. SK22BH

DO-214AA(SMB)



Dimensions in inch and (millimeter)

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

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60H_Z, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Symbols	*SK2BH*	*SK24BH*	*SK26BH*	*SK28BH*	*SK210BH*	*SK215BH*	*SK220BH*	Units
Marking Code		*SK22*	*SK24*	*SK26*	*SK28*	*SK210*	*SK215*	*SK220*	
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)	$I_{(AV)}$	2.0							**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50.0							**Amp**
Maximum Forward Voltage at 2.0A (Note 1)	V_F	0.55		0.75	0.85		0.95		**Volts**
Maximum Reverse Current at T_J=25℃	I_R	0.5			0.2				**mAmp**
at Rated DC Blocking Voltage T_J=100℃		10.0			5.0				
Typical Thermal Resistance from Junction to Lead (Note 2)	$R_{\theta JL}$	25							℃/W
Operating Junction Temperature Range	T_J	-65 to +125			-65 to +150				℃
Storage Temperature Range	T_{stg}	-65 to +150							℃

NOTES:

1- Pulse test: 300μs pulse width, 2% duty cycle

2- Mounted on P.C.B. with 0.28 x 0.28" (7.0 x 7.0mm) copper pad areas.

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RATINGS AND CHARACTERISTIC CURVES

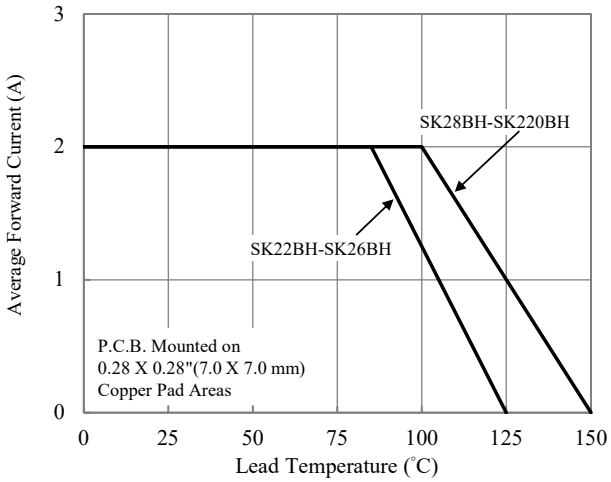

Fig.1-Forward Current Derating Curve

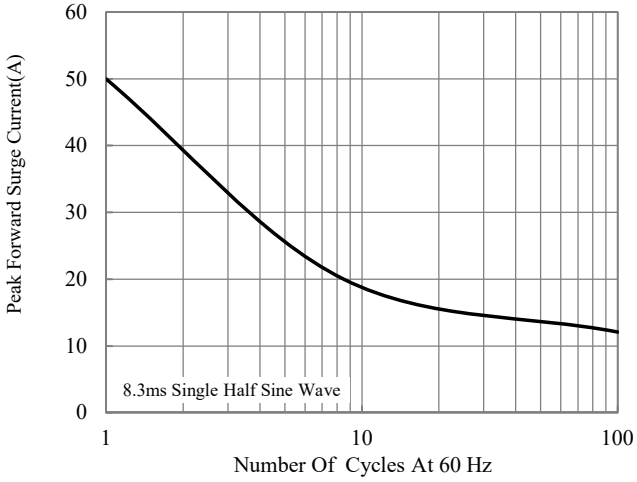

Fig.2-Maximun Non-Repetitive Peak Forward Surge Current

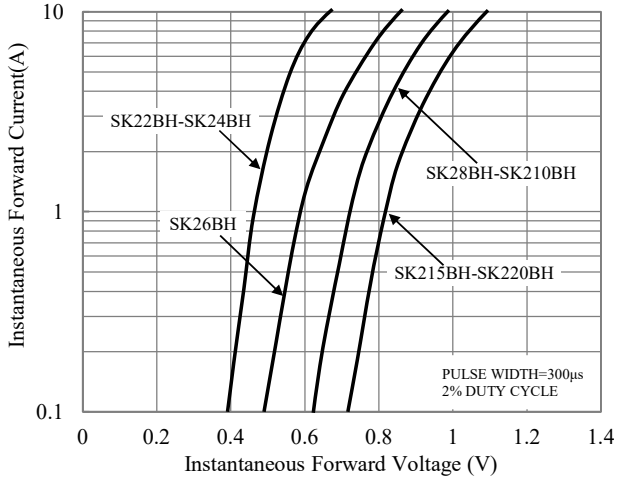

Fig.3-Typical Instantaneous Forward Characteristics

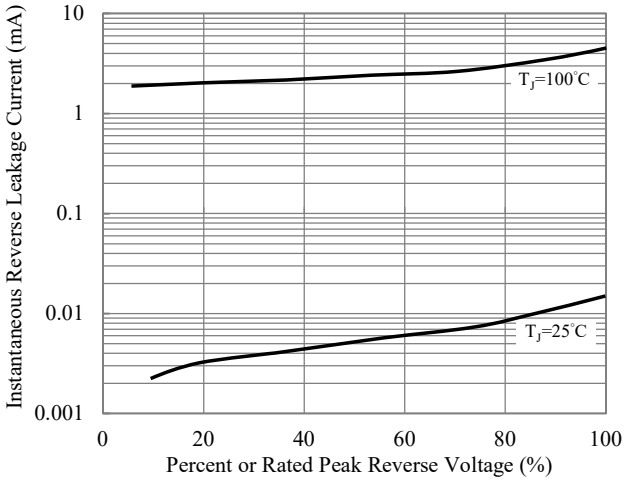

Fig.4-Typical Reverse Leakage Characteristics