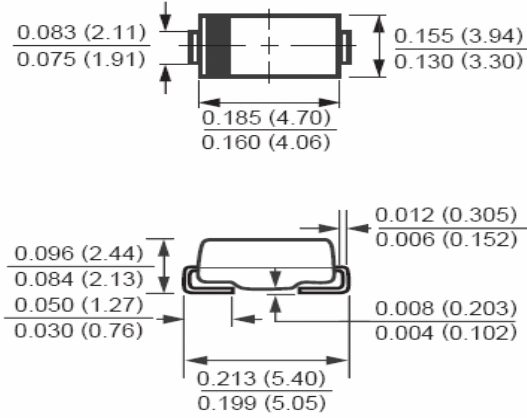


**FEATURES**

- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Metallurgically bonded construction
- \* High reliability
- \* RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"

**MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-O rate flame retardant
- \* Mounting position: Any
- \* Weight: 0.104 gram



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 of inductive load.  
 For capacitive load, derate current by 20%

RATINGS	SYMBOL	SK12B	SK13B	SK14B	SK15B	SK16B	SK18B	SK110B	SK115B	SK120B	UNIT
Marking Code		SK12B	SK13B	SK14B	SK15B	SK16B	SK18B	SK110B	SK115B	SK120B	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	I <sub>O</sub>	1.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30.0									Amps
Typical Thermal Resistance	R <sub>θJA</sub>	50									°C/W
	R <sub>θJC</sub>	20									°C/W
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	70			60		50		35		pF
Operating Temperature Range	T <sub>J</sub>	-55 to +125									°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150									°C

CHARACTERISTICS	SYMBOL	SK12B	SK13B	SK14B	SK15B	SK16B	SK18B	SK110B	SK115B	SK120B	UNIT	
Maximum Forward Voltage at 1.0A DC	@TA=25°C V <sub>F</sub>	0.50			0.70		0.85		0.87		0.90	Volts
Maximum Average Reverse Current at	@TA=25°C	0.5			0.2		0.2		5.0		mAmps	
Rated DC Blocking Voltage	@TA=100°C											10.0

Note : 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts.

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

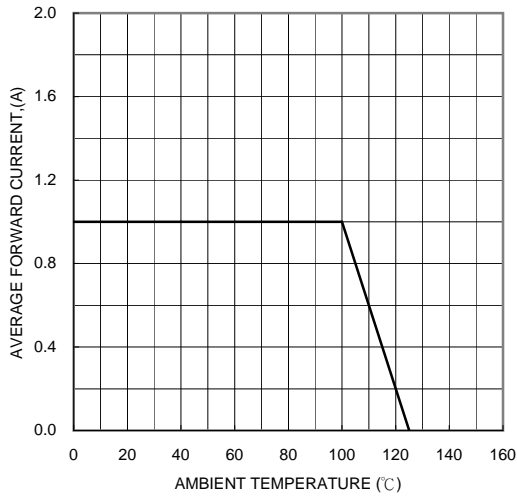


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

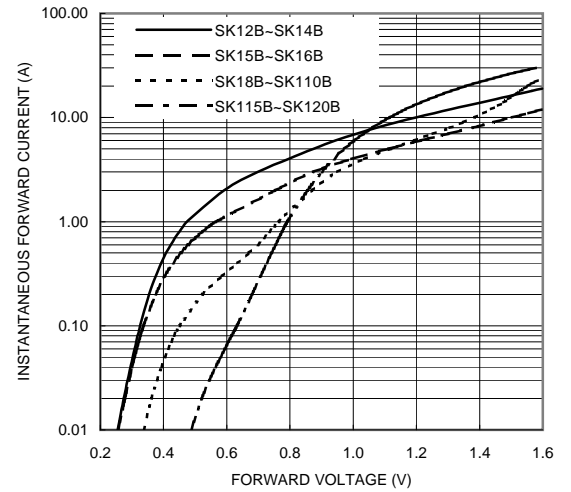


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

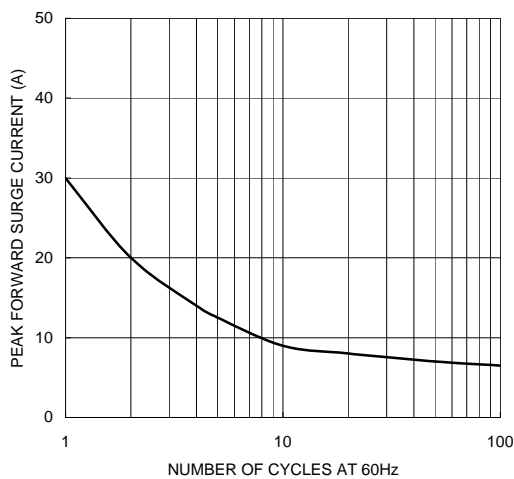


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

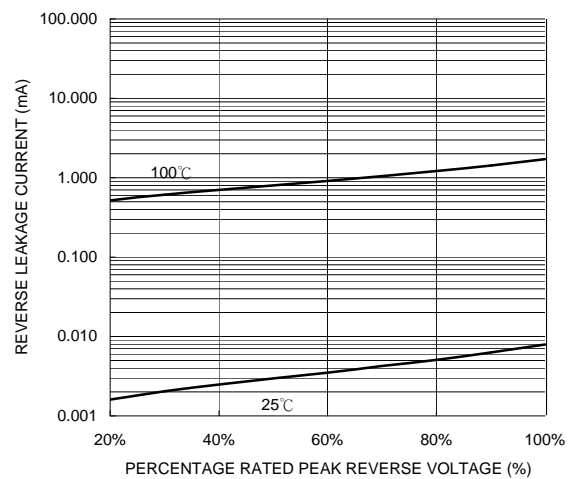


FIG. 5-TYPICAL JUNCTION CAPACITANCE

