



Features

- Average Forward Current: $I_F(AV)=10A$
- Polarity: Color band denotes cathode



SMB



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SK102B-SK1010B	SMB	SS10x	3000

x: From 2-10

Maximum Ratings ($T_a=25^{\circ}C$ unless otherwise noted)

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

For capacitive load, derate current by 20%.

Type Number	SK102B	SK103B	SK1035B	SK104B	SK1045B	SK106B	SK108B	SK1010B	Units
Maximum Recurrent Peak Reverse Voltage	20	30	35	40	45	60	80	100	V
Maximum RMS Voltage	14	21	24	28	31	42	56	70	V
Maximum DC Blocking Voltage	20	30	35	40	45	60	80	100	V
Maximum Average Forward Rectified Current See Fig. 1	10.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	250								A
Maximum Instantaneous Forward Voltage at 2.0A	0.55			0.65		0.85			V
Maximum DC Reverse Current Ta=25°C	1.0								mA
at Rated DC Blocking Voltage Ta=100°C	20.0								mA
Typical Junction Capacitance (Note1)	500								pF
Typical Thermal Resistance R JA (Note 2)	18								°C/W
Operating Temperature Range Tj	-65 — +150								°C
Storage Temperature Range Tstg	-65 — +150								°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas.



Typical Characteristics

Figure 1
Typical Forward Characteristics

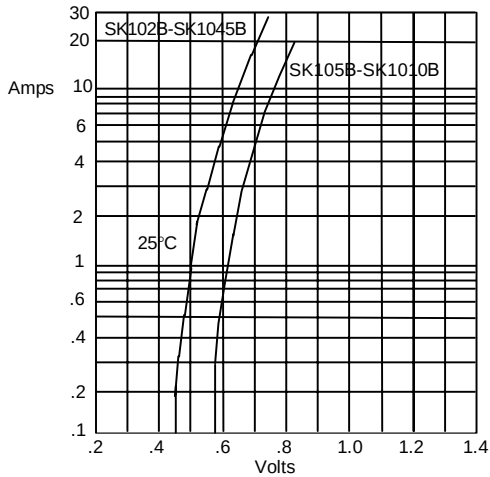


Figure 2
Forward Derating Curve

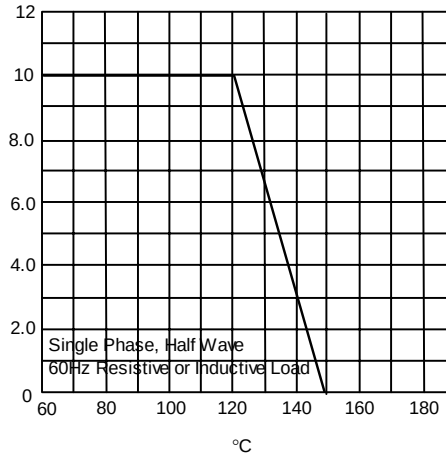


Figure 3
Junction Capacitance

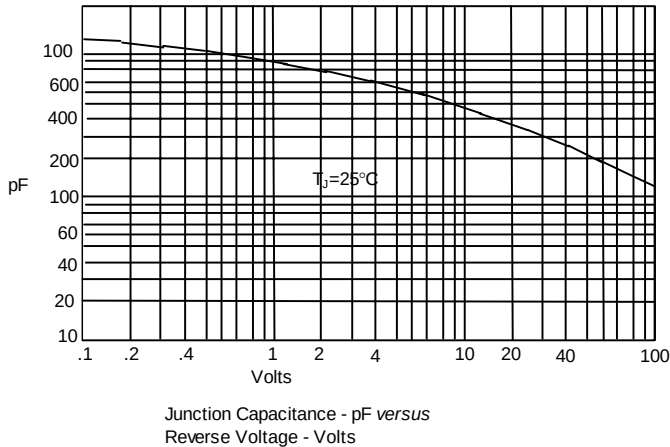


Figure 4
Typical Reverse Characteristics

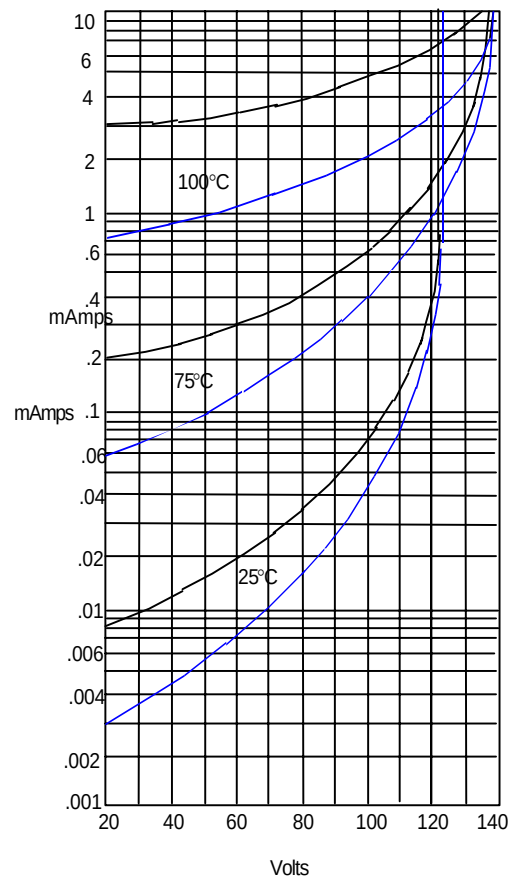
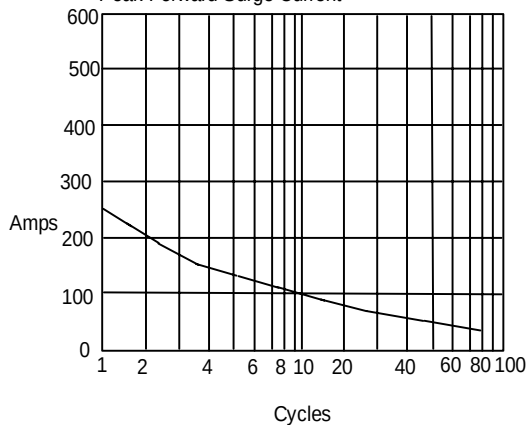


Figure 5
Peak Forward Surge Current

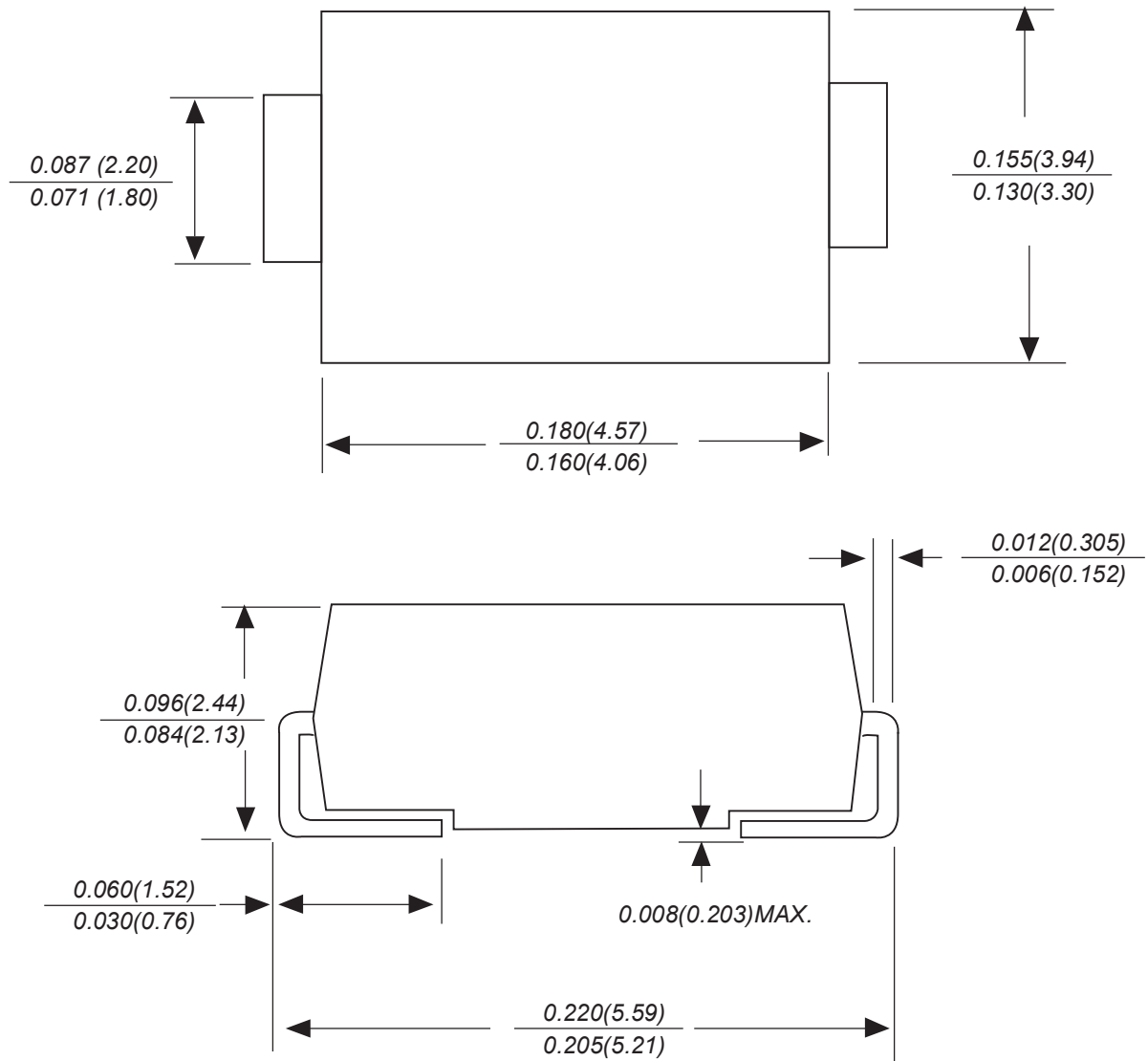


SK102-SK1045 —
SK105-SK1010 —



Package Outline Dimensions

SMB



Dimensions in inches and (millimeters)



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