

#### **Features**

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

## **Package Marking and Ordering Information**

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





**SMB** 



### Maxmim Ratings (Ta=25 unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

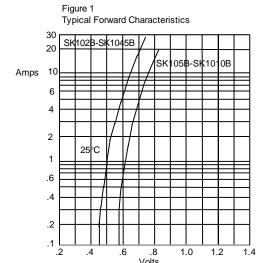
Type Number		SK103B	SK1035B	SK104B	SK1045B	SK106B	SK108B	SK1010B	Units	
Maximum Recurrent Peak Reverse Voltage		30	35	40	45	60	80	100	V	
Maximum RMS Voltage		21	24	28	31	42	56	70	V	
Maximum DC Blocking Voltage		30	35	40	45	60	80	100	V	
Maximum Average Forward Rectified Current										
See Fig. 1		10.0								
Peak Forward Surge Current, 8.3 ms single half sine-wave										
superimposed on rated load (JEDEC method)		250								
Maximum Instantaneous Forward Voltage at 2.0A		0.55 0.65					0.85			
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								
Typical Thermal Resistance R JA (Note 2)		18								
Operating Temperature Range T <sub>J</sub>		-65 —+150								
Storage Temperature Range Tsrg		-65 <sup></sup> +150								

#### **NOTES:**

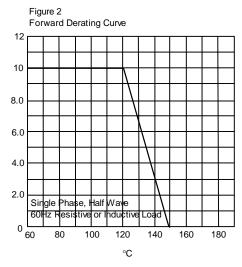
- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas.



## **Typical Characteristics**

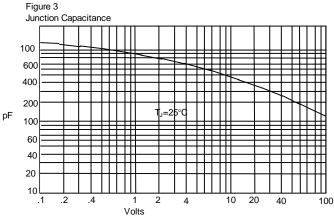


Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts

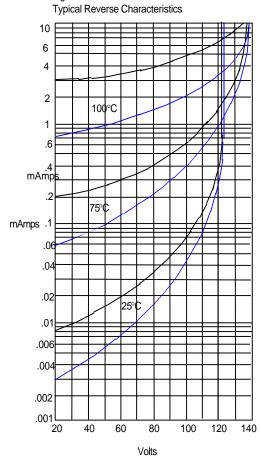


Average Forward Rectified Current - Amperes versus Lead Temperature - C

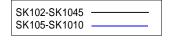
Figure 4

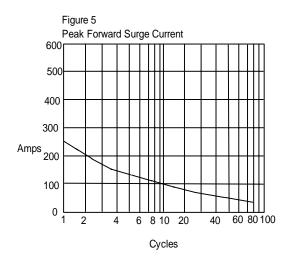


Junction Capacitance - pF *versus* Reverse Voltage - Volts



Instantaneous Reverse Leakage Current - MicroAmperes *versus* Percent Of Rated Peak Reverse Voltage - Volts

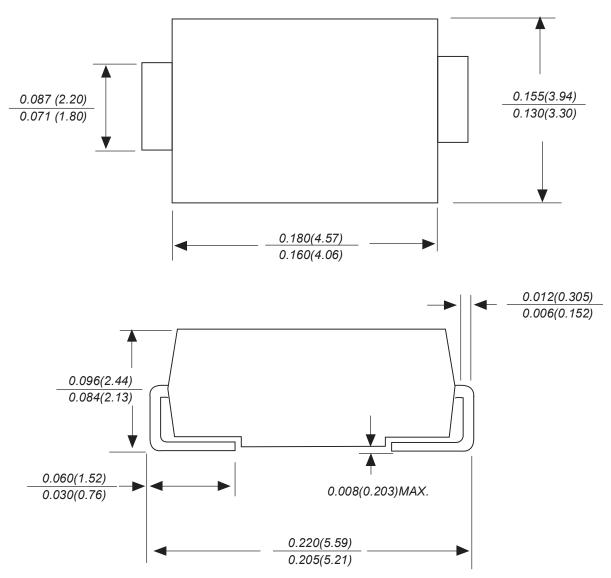




Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles



# Package Outline Dimensions SMB



Dimensions in inches and (millimeters)



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