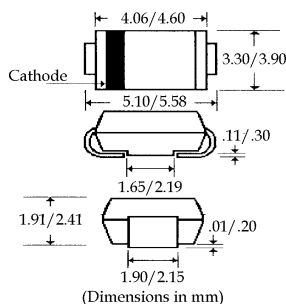


Description



Mechanical Dimensions

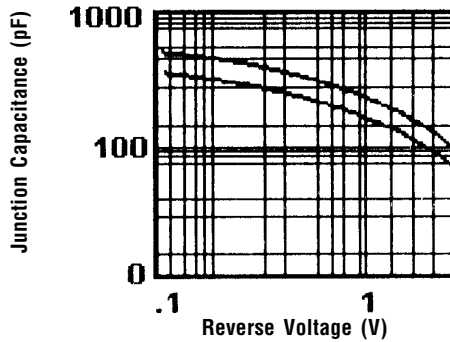
**DO-214AA
(SMB)**


Features

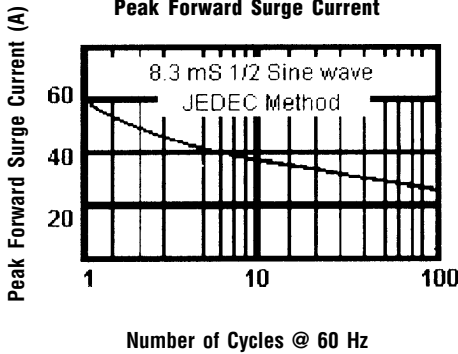
- EXTREMELY LOW V_F
- LOW STORED CHARGE
- LOW POWER LOSS - HIGH EFFICIENCY
- MAJORITY CARRIER CONDUCTION
- MEETS UL SPECIFICATION 94V-0

SMB220 . . . 2100 Series							Units
Maximum Ratings	SMB220	SMB230	SMB240	SMB250	SMB260	SMB2100	
Peak Repetitive Reverse Voltage...V _{RRM}	20	30	40	50	60	100	Volts
Working Peak Reverse Voltage...V _{RWM}	20	30	40	50	60	100	Volts
DC Blocking Voltage...V _{DC}	20	30	40	50	60	100	Volts
RMS Reverse Voltage...V _{R(rms)}	14	21	28	35	42	70	Volts
Average Forward Rectified Current...I _{F(av)}	2.0						Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM}	< 50 >						Amps
Operating Temperature Range...T _J	< -65 to 125 > < -55 to 150 ... > -65 to 150						°C
Storage Temperature Range...T _{STRG}	-65 to 150						°C
Electrical Characteristics							
Maximum Forward Voltage...V _F (Note 2)	.45	.50	.55	.70	.70	.85	Volts
Maximum DC Reverse Current...I _R @ Rated DC Blocking Voltage	T _C = 25°C 0.5 T _C =100°C < 20 > < 10 > 15						mAmps mAmps
Typical Junction Capacitance...C _J (Note 1)	< 100 > 150						pF
Typical Thermal Resistance...R _{ΘJA}	100						°C / W

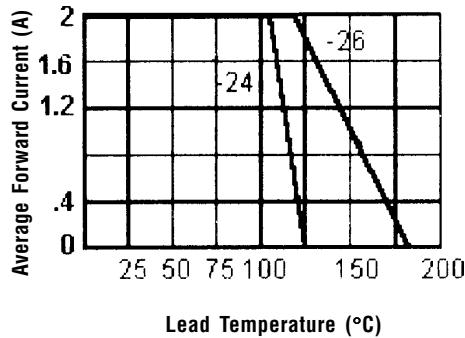
Typical Junction Capacitance



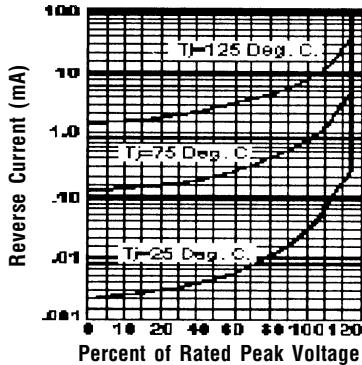
Non-Repetitive
Peak Forward Surge Current



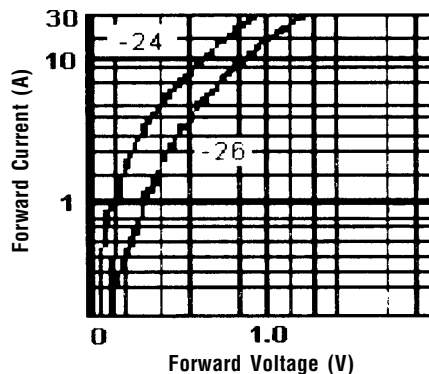
Forward Current Derating Curve



Typical Reverse Characteristics



Typical Instantaneous Forward Characteristics



Ratings at
25 Deg. C ambient
temperature
unless otherwise
specified.

Single Phase Half
Wave, 60 Hz
Resistive or
Inductive Load.

For Capacitive
Load, Derate
Current by 20%.

- NOTES:** 1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
2. Measured with Pulse Width = 300 μ S, 2% Duty Cycle.