

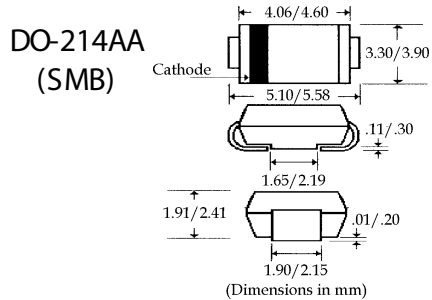


SMB220 ... 2100 Series

Description



Mechanical Dimensions

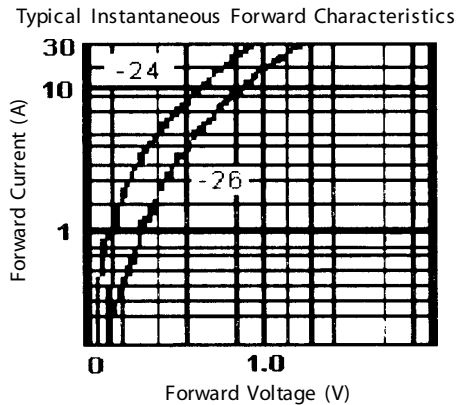
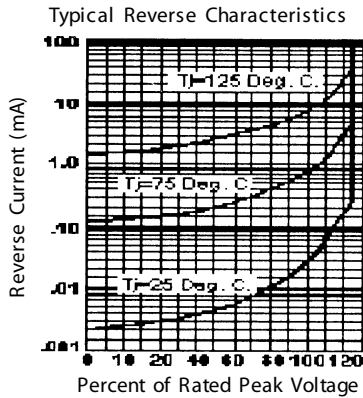
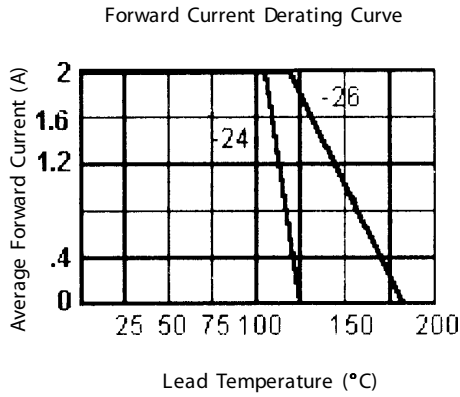
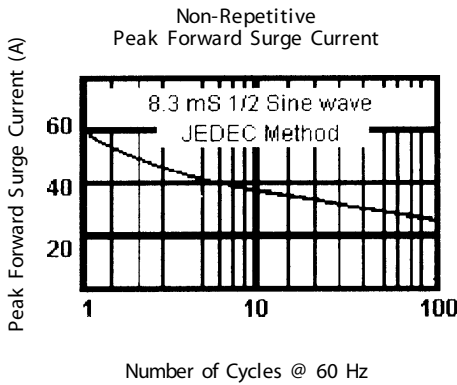
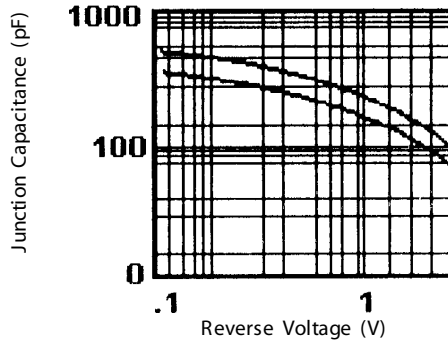


Features

- 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				$T_C = 25^\circ C$ 0.5			mAmps
				$T_C = 100^\circ C$ <..... 20	> <..... 10		mAmps
Typical Junction Capacitance... C_j (Note 1)	<.....			100	> 150		pF
Typical Thermal Resistance... $R_{\theta JA}$	<..... 100						°C / W

Typical Junction Capacitance



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 mS, 2% Duty Cycle.