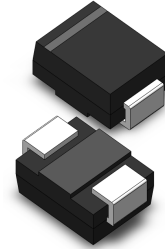


VOLTAGE RANGE: 20 - 100V
CURRENT: 2.0 A

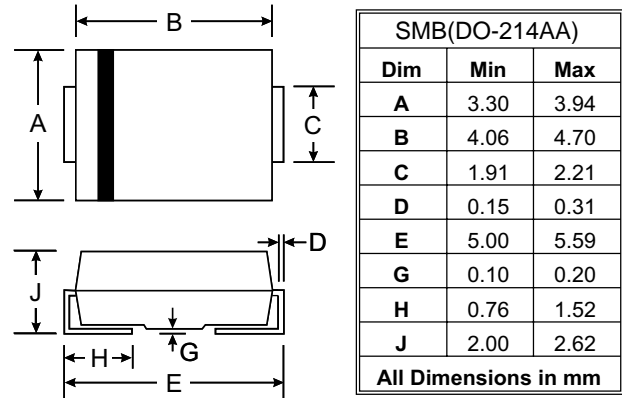
Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)



Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	MBRS220	MBRS230	MBRS240	MBRS260	MBRS2100	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}							
Working Peak Reverse Voltage	V _{RWM}	20	30	40	60	100	V	
DC Blocking Voltage	V _R							
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	42	71	V	
Average Rectified Output Current @T _L = 105°C	I _O	2.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50						A
Forward Voltage @I _F = 2.0A	V _{FM}	0.50			0.70	0.85	V	
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}			0.5			mA	
				20				
Typical Thermal Resistance (Note 1)	R _{θJL} R _{θJA}			17 75			°C/W	
Operating Temperature Range	T _j			-65 to +125			°C	
Storage Temperature Range	T _{STG}			-65 to +150			°C	

Note: 1. Mounted on P.C. Board with 8.0mm² copper pad area.

FIG.1 - FORWARD CURRENT DERATING CURVE

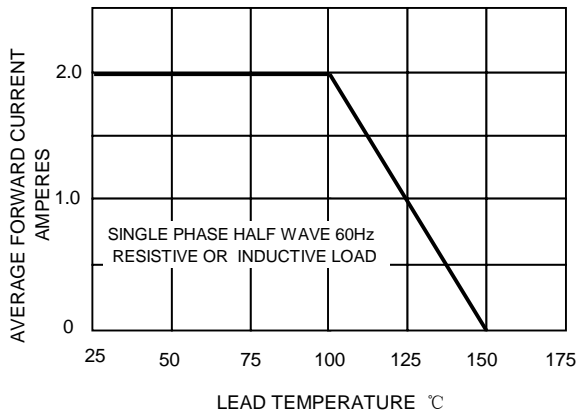


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

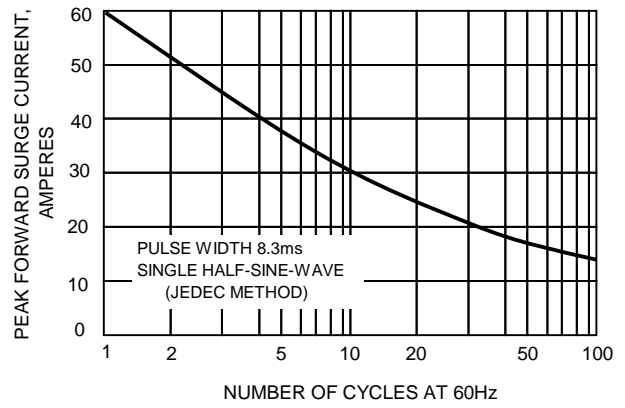


FIG.4-TYPICAL FORWARD CHARACTERISTICS

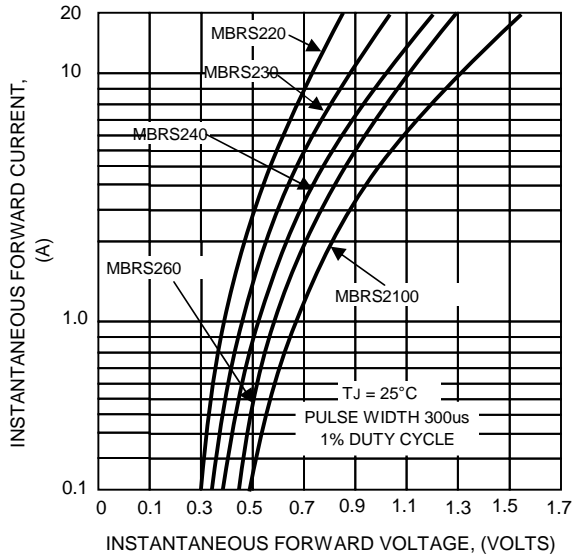


FIG.4-TYPICAL JUNCTION CAPACITANCE

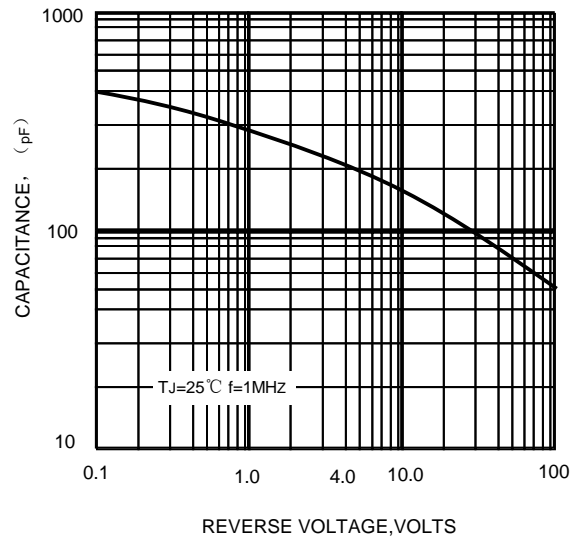


FIG.5-TYPICAL REVERSE CHARACTERISTICS

