

VOLTAGE RANGE: 20 - 100V
CURRENT: 2.0 A

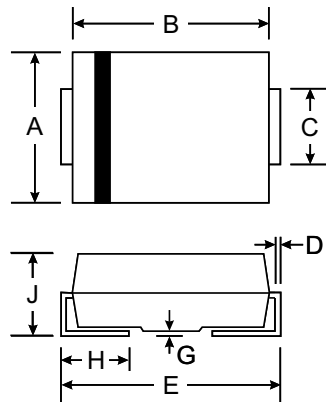
Features

- 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.)



SMB(DO-214AA)		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.70
C	1.91	2.21
D	0.15	0.31
E	5.00	5.59
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		



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	SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}									V	
Working Peak Reverse Voltage	V _{RWM}	20	30	40	50	60	80	90	100		
DC Blocking Voltage	V _R										
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	56	64	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					20				mA
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

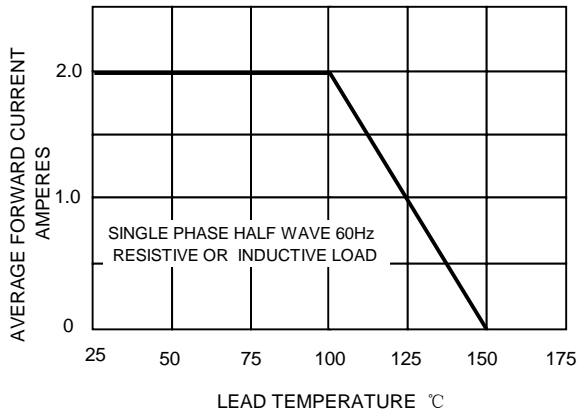


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

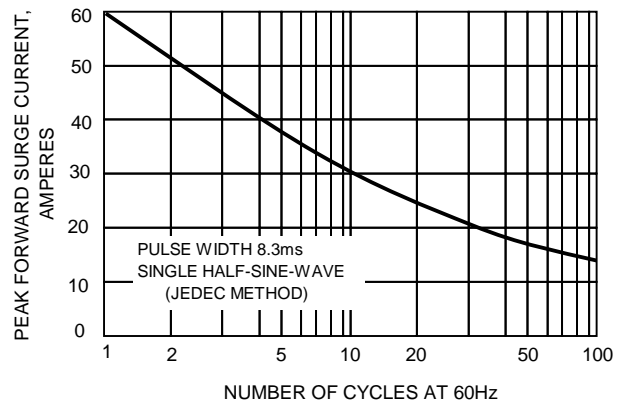


FIG.4-TYPICAL FORWARD CHARACTERISTICS

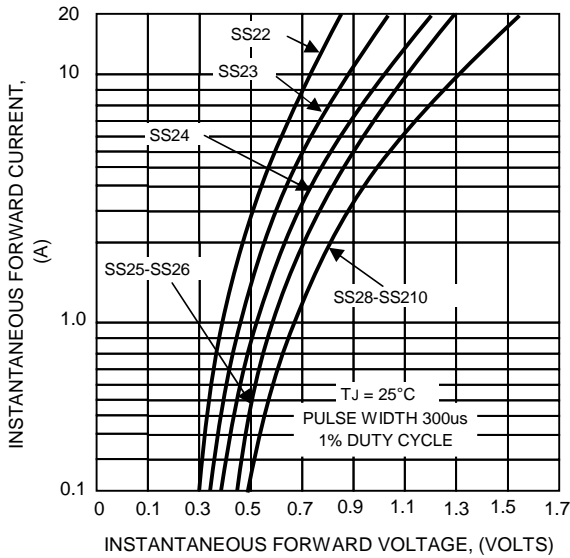


FIG.4-TYPICAL JUNCTION CAPACITANCE

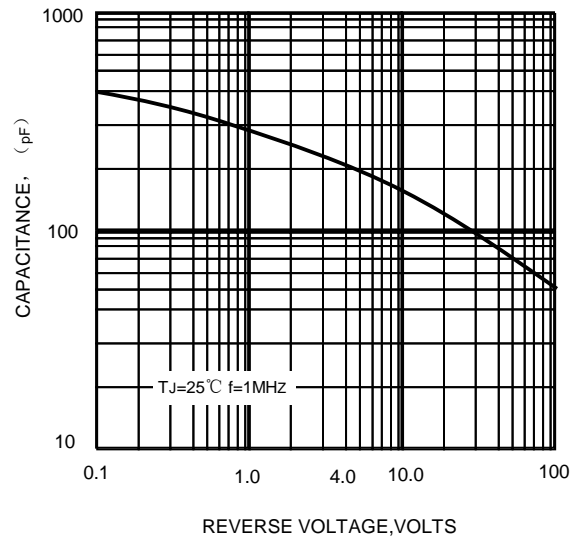


FIG.5-TYPICAL REVERSE CHARACTERISTICS

