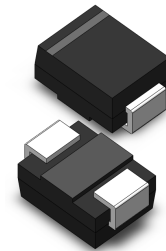


**VOLTAGE RANGE: 50 - 600V**  
**CURRENT: 2.0 A**

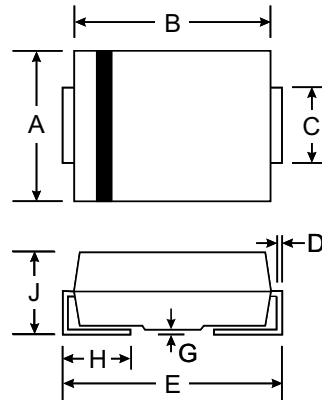


### Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Low Power Loss
- Super-Fast Recovery Time
- 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<sub>A</sub> = 25°C unless otherwise specified

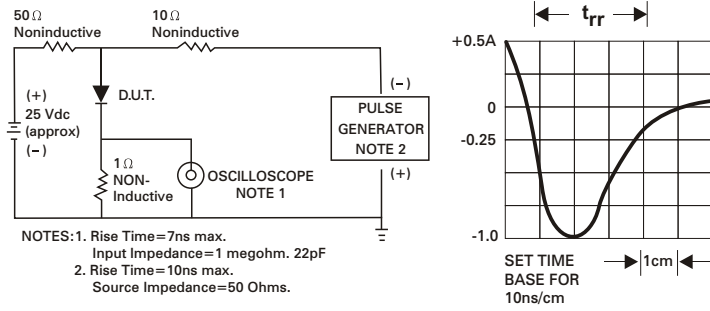
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	Unit	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>									
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	150	200	300	400	600	V	
DC Blocking Voltage	V <sub>R</sub>									
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	105	140	210	280	420	V	
Average Rectified Output Current @ T <sub>L</sub> = 75 °C	I <sub>O</sub>	2.0							A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50							A	
Forward Voltage @ I <sub>F</sub> = 2.0A	V <sub>FM</sub>	0.95				1.25		1.7	V	
Peak Reverse Current @ T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @ T <sub>A</sub> = 100°C	I <sub>RM</sub>	5.0				200				μA
Reverse Recovery Time (Note 1)	t <sub>rr</sub>	35								nS
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	62								pF
Typical Thermal Resistance (Note 3)	R <sub>θJL</sub>	40								°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150							°C	

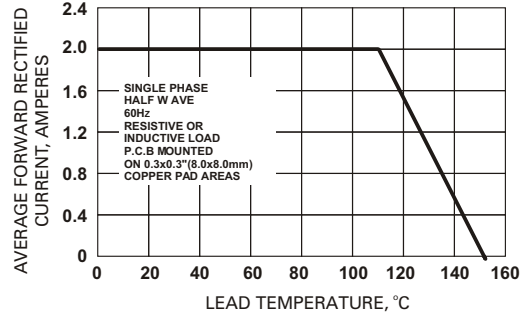
Note: 1. Measured with I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, I<sub>rr</sub> = 0.25A. See figure 5.  
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.  
 3. Mounted on P.C. Board with 8.0mm<sup>2</sup> land area.

## RATING AND CHARACTERISTIC CURVES ES2A THRU ES2J

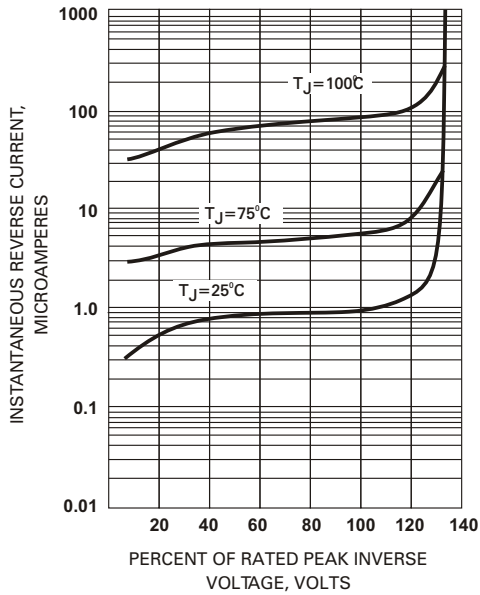
**Fig. 1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM ES1A THRU ES1G**



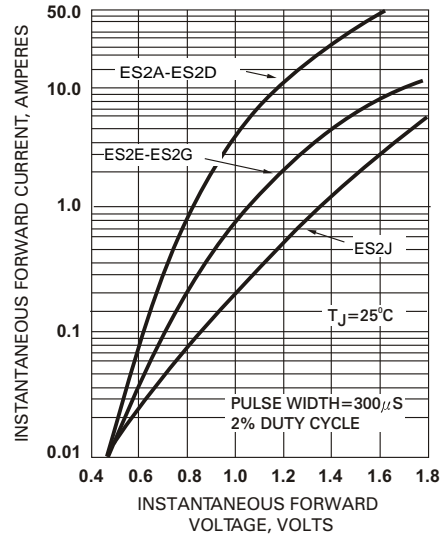
**Fig. 2 - MAXIMUM AVERAGE FORWARD CURRENT RATING**



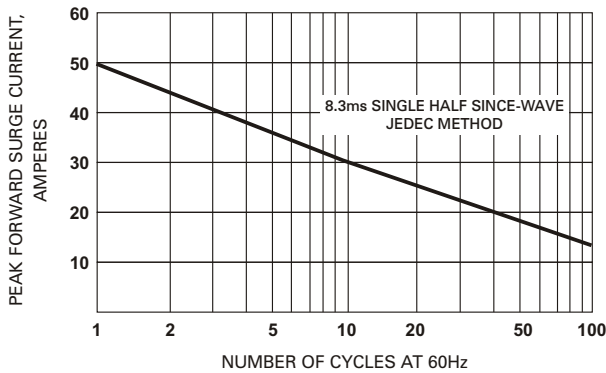
**Fig. 3 - TYPICAL REVERSE CHARACTERISTICS**



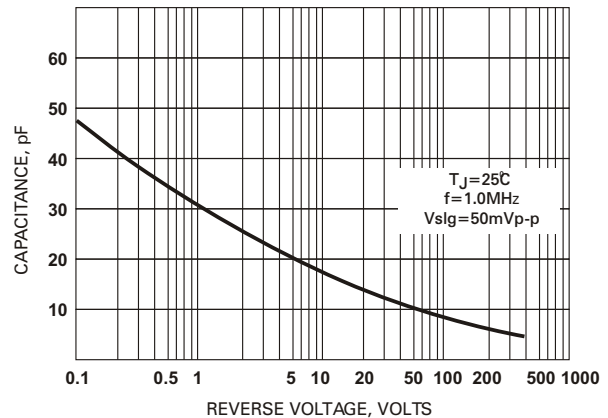
**Fig. 4 - TYPICAL FORWARD CHARACTERISTICS**



**Fig. 5 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**Fig. 6 - TYPICAL JUNCTION CAPACITANCE**



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