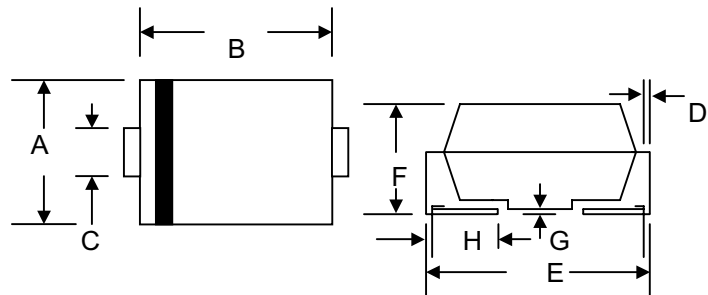


Data Sheet 2566, Rev. -

**Features**

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 60A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O



**Mechanical Data**

- Case: 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	0.130(3.30)	0.155(3.94)
B	0.160(4.06)	0.185(4.70)
C	0.075(1.91)	0.083(2.11)
D	0.006(0.152)	0.012(0.305)
E	0.200(5.08)	0.220(5.59)
F	0.084(2.13)	0.096(2.44)
G	0.002(0.051)	0.008(0.203)
H	0.030(0.76)	0.050(1.27)
All Dimensions in inch(mm)		

**Maximum Ratings and Electrical Characteristics** @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>								
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V <sub>R</sub>								
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>L</sub> = 110°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>	60							A
Forward Voltage @I <sub>F</sub> = 2.0A	V <sub>FM</sub>	1.10							V
Peak Reverse Current @T <sub>A</sub> = 25°C	I <sub>RM</sub>	5.0							μA
At Rated DC Blocking Voltage @T <sub>A</sub> = 125°C		200							
Reverse Recovery Time (Note 1)	t <sub>rr</sub>	2.5							μS
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	30							pF
Typical Thermal Resistance (Note 3)	R <sub>θJL</sub>	16							K/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-55 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,  
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.

Data Sheet 2566, Rev. -

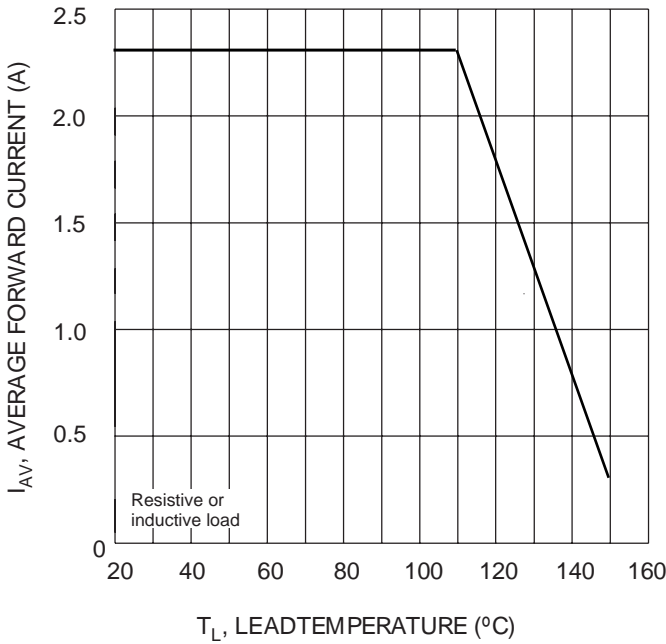


Fig. 1 Forward Current Derating Curve

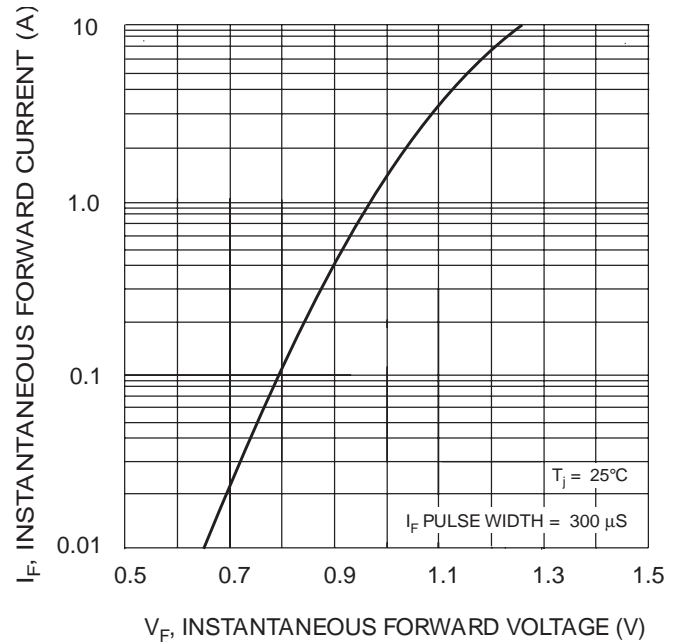


Fig. 2 Typical Forward Characteristics

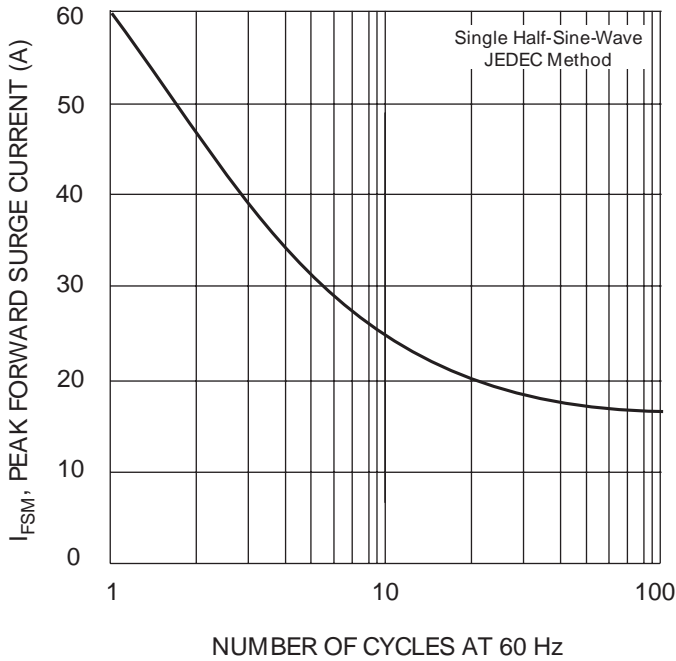


Fig. 3 Forward Surge Current Derating Curve

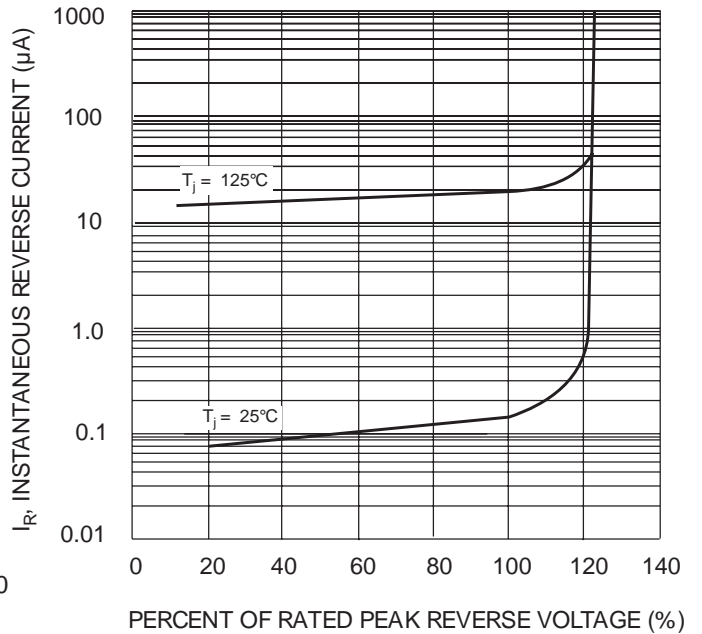


Fig. 4 Typical Reverse Characteristics

**TECHNICAL DATA**

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