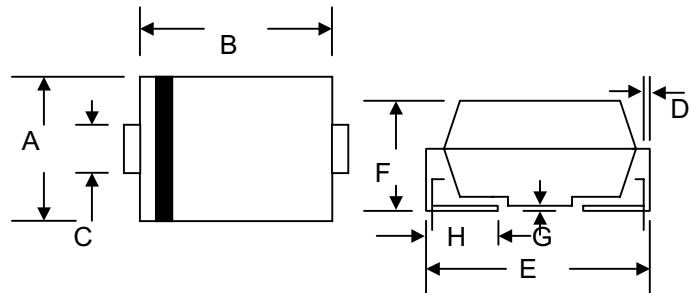


**Data Sheet 2561 Rev.—**

**Features**

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 100A 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: 0.21 grams (approx.)

SMC/DO-214AB		
Dim	Min	Max
A	0.220(5.59)	0.245(6.22)
B	0.260(6.60)	0.280(7.11)
C	0.108(2.75)	0.128(3.25)
D	0.006(0.15)	0.012(0.31)
E	0.305(7.75)	0.320(8.13)
F	0.079 (2.00)	0.103(2.62)
G	0.002(0.05)	0.008(0.20)
H	0.030(0.76)	0.050(1.27)
All Dimensions in inch( mm)		

**Maximum Ratings and Electrical Characteristics @ $T_A=25^{\circ}\text{C}$  unless otherwise specified**

Characteristic	Symbol	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	$V_{RWM}$								
DC Blocking Voltage	$V_R$								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_L = 75^{\circ}\text{C}$	$I_o$	3.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	100							A
Forward Voltage @ $I_F = 3.0\text{A}$	$V_{FM}$	1.20							V
Peak Reverse Current @ $T_A = 25^{\circ}\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^{\circ}\text{C}$	$I_{RM}$	5.0 250							$\mu\text{A}$
Reverse Recovery Time (Note 1)	$t_{rr}$	2.5							$\mu\text{S}$
Typical Junction Capacitance (Note 2)	$C_j$	60							pF
Typical Thermal Resistance (Note 3)	$R_{\theta JL}$	13							K/W
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150							$^{\circ}\text{C}$

Note: 1. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{rr} = 0.25\text{A}$ ,  
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.

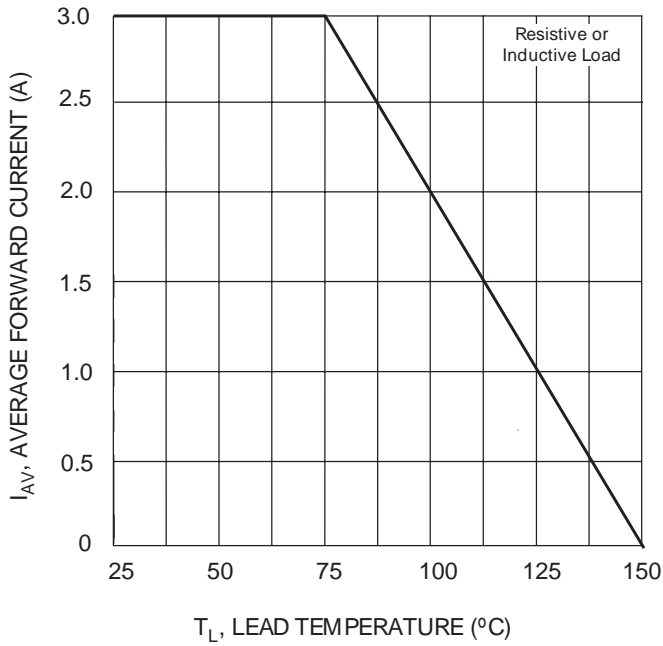


Fig. 1 Forward Current Derating Curve

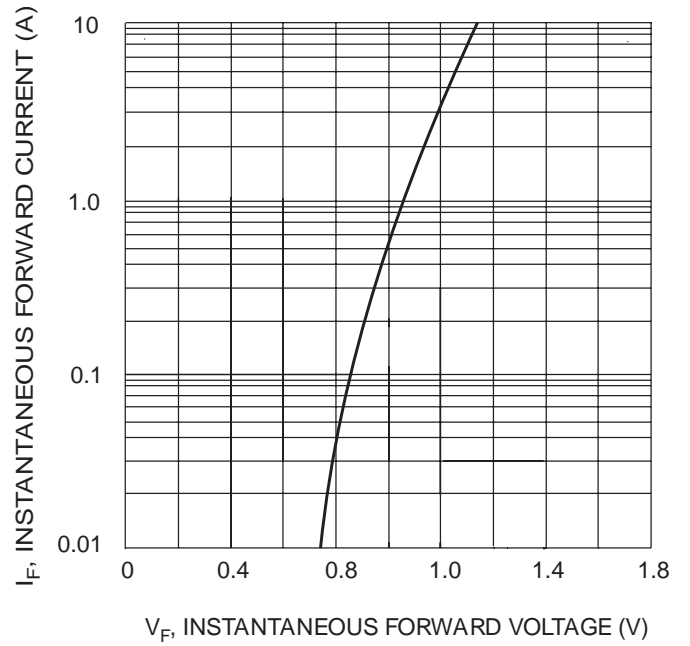


Fig. 2 Typical Forward Characteristics

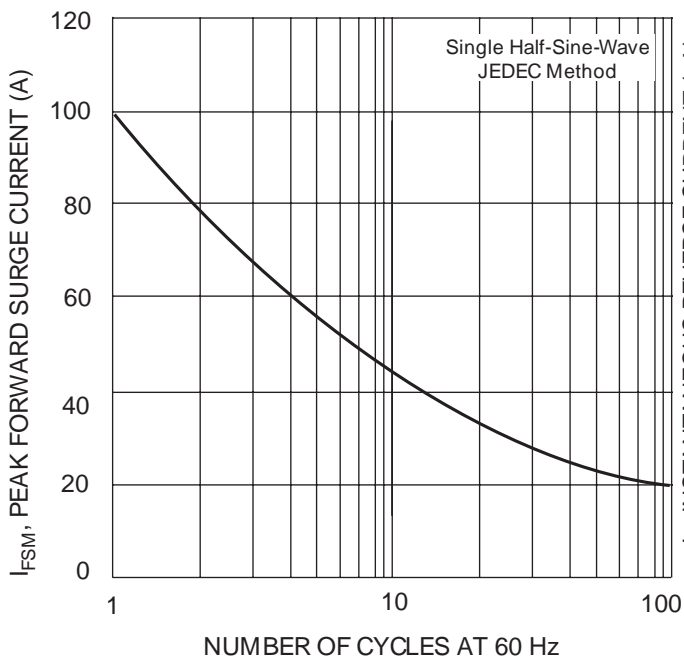


Fig. 3 Forward Surge Current Derating Curve

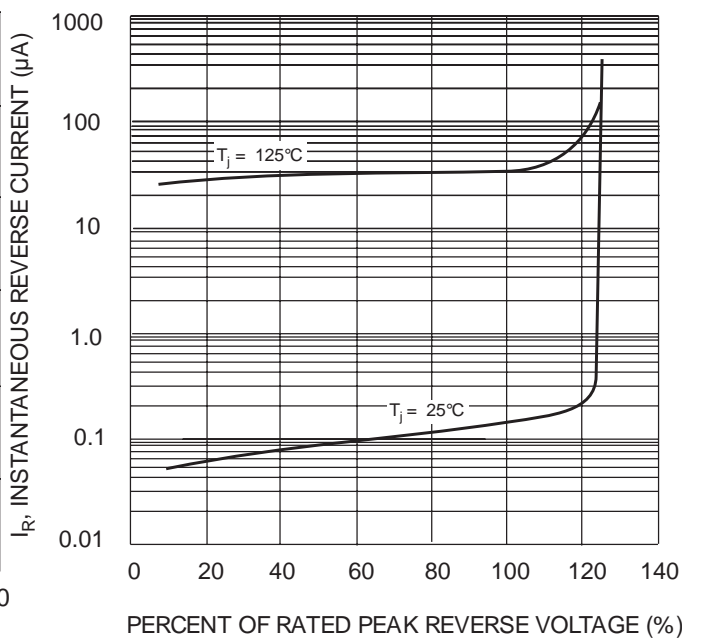


Fig. 4 Typical Reverse Characteristics