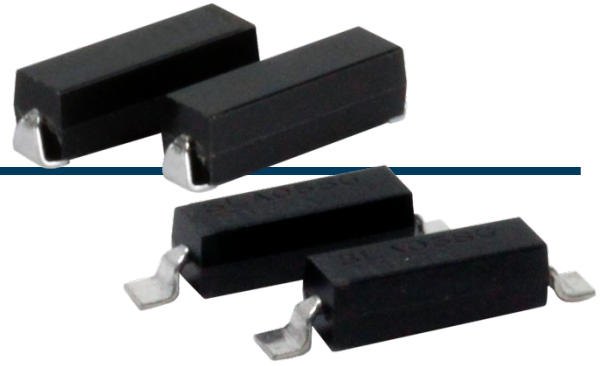




SLA-L SERIES

5 to 20kV, 400 to 1200mA, 100nS
Surface Mount Diodes



Features

- Long Surface Mount Package
- J Lead or Gullwing Package Option
- Available in Cut Tape and 1000 Piece Reels
- Molded Plastic Body, ANSI/UL94 V-0 Rated Material

Specifications¹

| Part Number | V _{RRM} V | I _{FAVM1} ² mA | I _{FAVM2} ² mA | I _{FAVM3} ² mA | V _F V | I _R μA | I _{FSM} A | C _J pF | T _{RR} nS | R _{θJL} °C/W | R _{θJC} °C/W |
|--------------------------------------|-----------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------|----------------------|-----------------------|----------------------|-----------------------|--------------------------|--------------------------|
| J Lead Subseries (Figure 1) | | | | | | | | | | | |
| SLA05L | 5000 | 1200 | 600 | 550 | 14.3 | 0.5 | 25 | 14.5 | 100 | 13 | 26 |
| SLA06L | 6000 | 925 | 490 | 400 | 17.4 | 0.5 | 25 | 10.3 | 100 | 13 | 26 |
| SLA08L | 8000 | 625 | 225 | 225 | 20.3 | 0.5 | 25 | 8.7 | 100 | 13 | 26 |
| SLA10L | 10000 | 600 | 200 | 200 | 23.4 | 0.5 | 25 | 7.7 | 100 | 13 | 26 |
| SLA12L | 12000 | 550 | 180 | 180 | 27.2 | 0.5 | 25 | 6.3 | 100 | 13 | 26 |
| SLA15L | 15000 | 425 | 140 | 140 | 32.7 | 0.5 | 15 | 4.7 | 100 | 13 | 26 |
| SLA20L | 20000 | 400 | 125 | 125 | 39.7 | 0.5 | 15 | 3.8 | 100 | 13 | 26 |
| Gullwing Subseries (Figure 2) | | | | | | | | | | | |
| SLA05LG | 5000 | 1200 | 600 | 550 | 14.3 | 0.5 | 25 | 14.5 | 100 | 13 | 26 |
| SLA06LG | 6000 | 925 | 490 | 400 | 17.4 | 0.5 | 25 | 10.3 | 100 | 13 | 26 |
| SLA08LG | 8000 | 625 | 225 | 225 | 20.3 | 0.5 | 25 | 8.7 | 100 | 13 | 26 |
| SLA10LG | 10000 | 600 | 200 | 200 | 23.4 | 0.5 | 25 | 7.7 | 100 | 13 | 26 |
| SLA12LG | 12000 | 550 | 180 | 180 | 27.2 | 0.5 | 25 | 6.3 | 100 | 13 | 26 |
| SLA15LG | 15000 | 425 | 140 | 140 | 32.7 | 0.5 | 15 | 4.7 | 100 | 13 | 26 |
| SLA20LG | 20000 | 400 | 125 | 125 | 39.7 | 0.5 | 15 | 3.8 | 100 | 13 | 26 |

| Temperature °C | |
|------------------------------|--|
| Storage Temperature | -55 to 150 |
| Operating Temperature | -55 to 150 (SLA05L to SLA06L, SLA05LG to SLA06LG) -55 to 125 (SLA08L to SLA20L, SLA08LG to SLA20LG) |
| Maximum Junction Temperature | 150 (SLA05L to SLA06L, SLA05LG to SLA06LG) 125 (SLA08L to SLA20L, SLA08LG to SLA20LG) |

¹125°C ambient temperature unless stated otherwise.

²Check Specification Definitions for conditions details.



SLA-L SERIES

Drawings

Dimensions in inches [mm], tolerances ± 0.020 except as noted

Figure 1 – J Lead Subseries

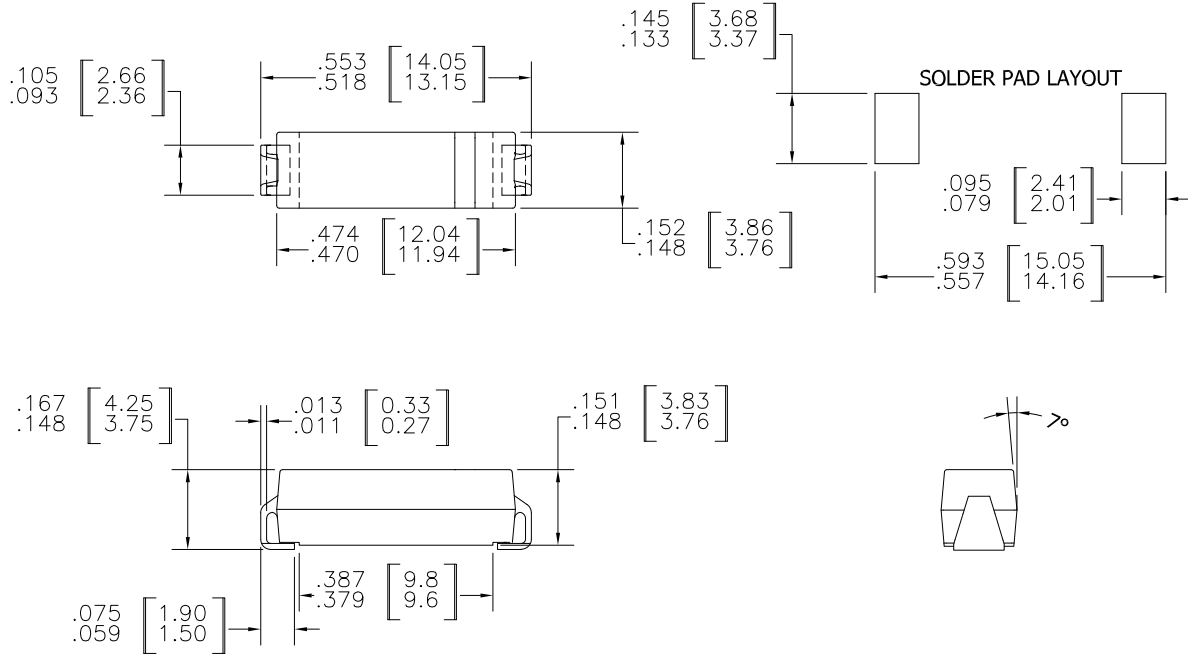
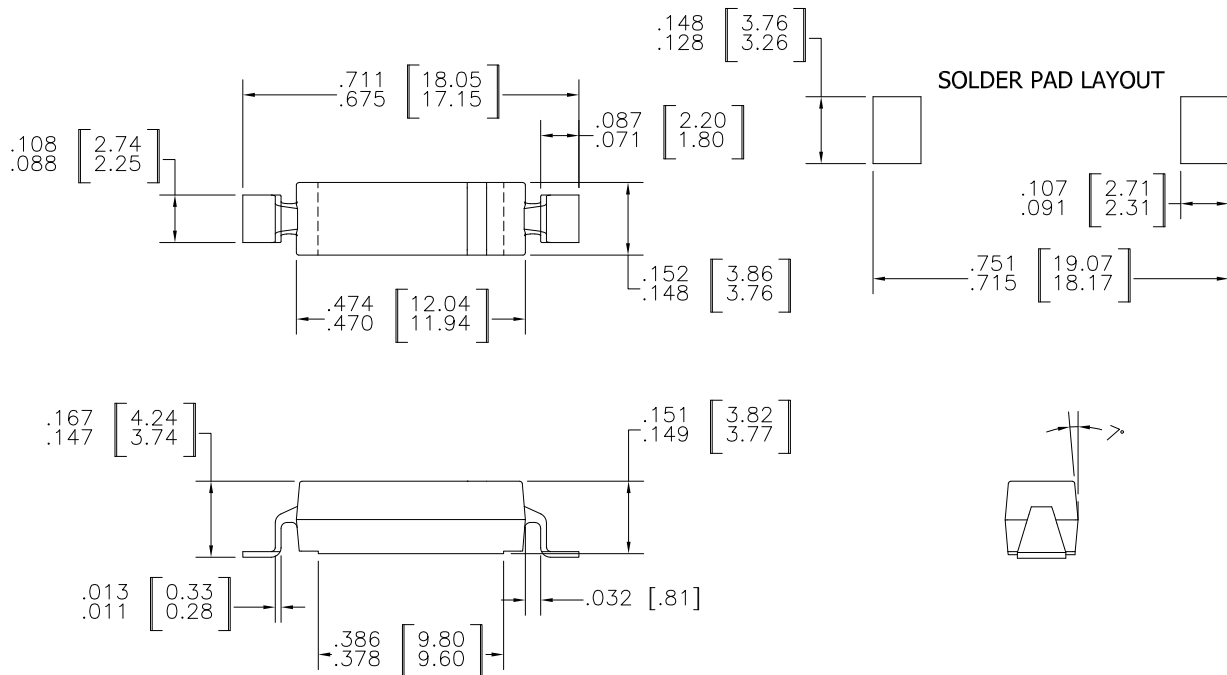
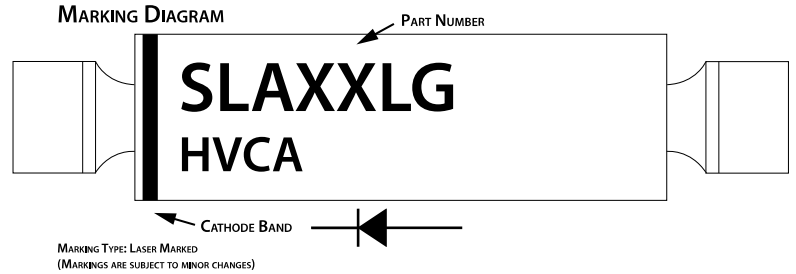
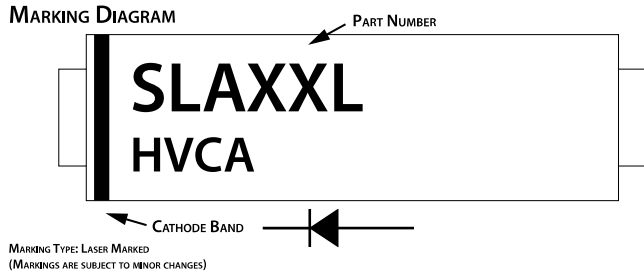


Figure 2 – Gullwing Subseries

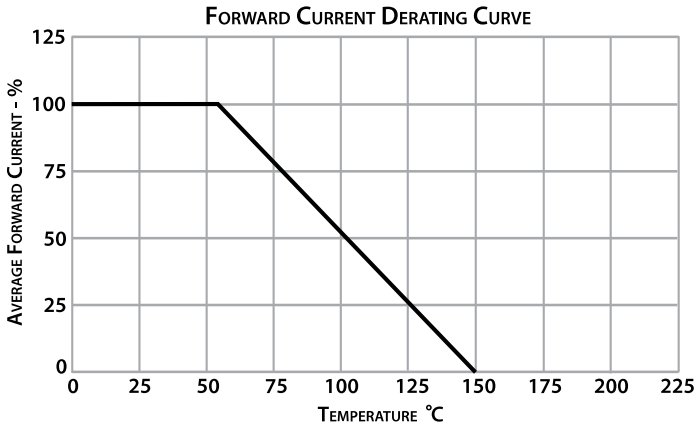




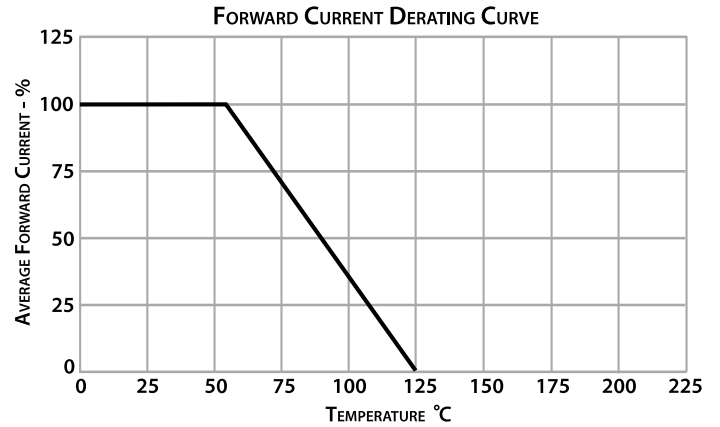
SLA-L SERIES



SLA05L to SLA06L, SLA05LG to SLA06LG



SLA08L to SLA20L, SLA08LG to SLA20LG



Specification Definitions

| Specifications | | Conditions |
|--------------------------|---|---|
| V_{RRM} | Maximum Repetitive Reverse Voltage | - |
| I_{FAVM1} | Maximum Average Forward Current | At T _L = 55°C |
| I_{FAVM2} | Maximum Average Forward Current | At T _L = 100°C |
| I_{FAVM3} | Maximum Average Forward Current | At T _C = 70°C |
| V_F | Maximum Forward Voltage Drop | At I _{FAVM1} |
| I_R | Maximum Leakage Current | At V _{RRM} |
| I_{FSM} | Maximum Surge Current | At 8.3 mS, Single Half Sine |
| C_J | Typical Junction Capacitance | At V _R = 0VDC, f = 1MHz |
| T_{RR} | Maximum Reverse Recovery Time | I _F = 0.5 I _{FAVM1} ; I _R = -I _{FAVM1} ; I _{RR} = -0.25 I _{FAVM1} |
| R_{θJL} | Typical Thermal Resistance Junction to Lead | Device Mounted on 0.2" x 0.2" (5mm x 5mm) Copper Solder Pads |
| R_{θJC} | Typical Thermal Resistance Junction to Case | Device Mounted on 0.2" x 0.2" (5mm x 5mm) Copper Solder Pads |



Note: Specifications subject to change without notice. Photo is representation only.