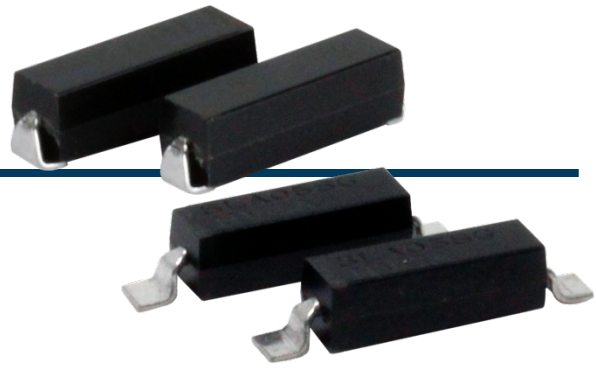
SLA-L SERIES

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

Specifications[1]

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	$R_{\theta JL}$ °C/W	$R_{\theta JC}$ °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)*

[1]25°C ambient temperature unless stated otherwise.
[2]Check Specification Definitions for conditions details.

Drawings

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

Figure 1 – J Lead Subseries

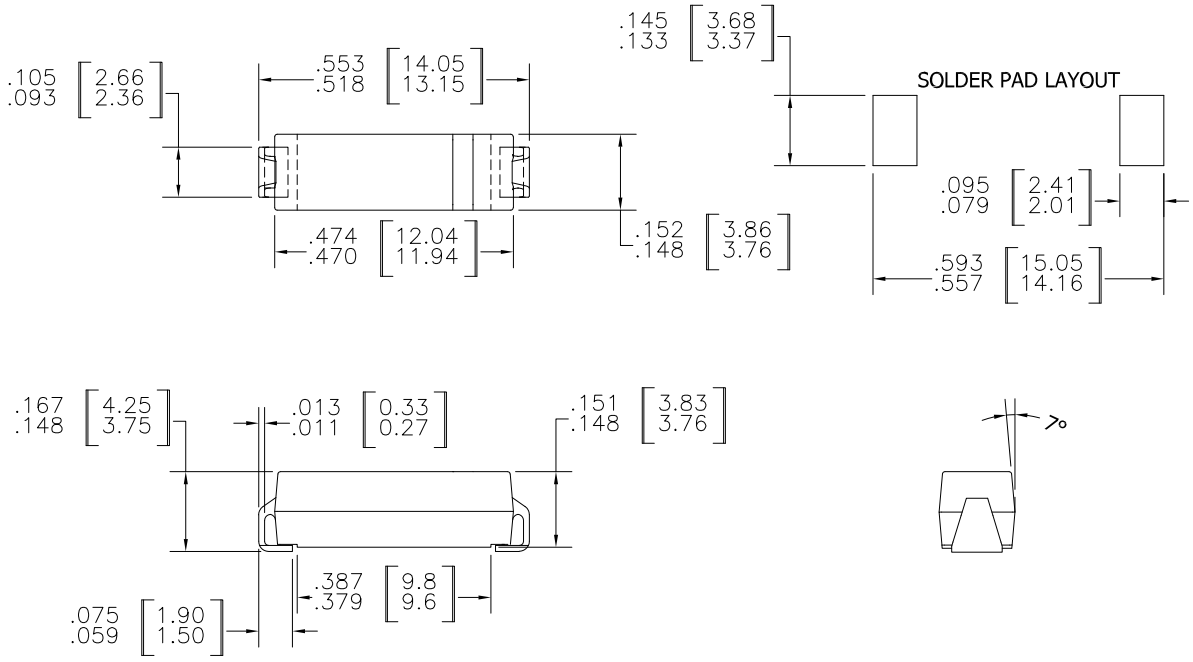
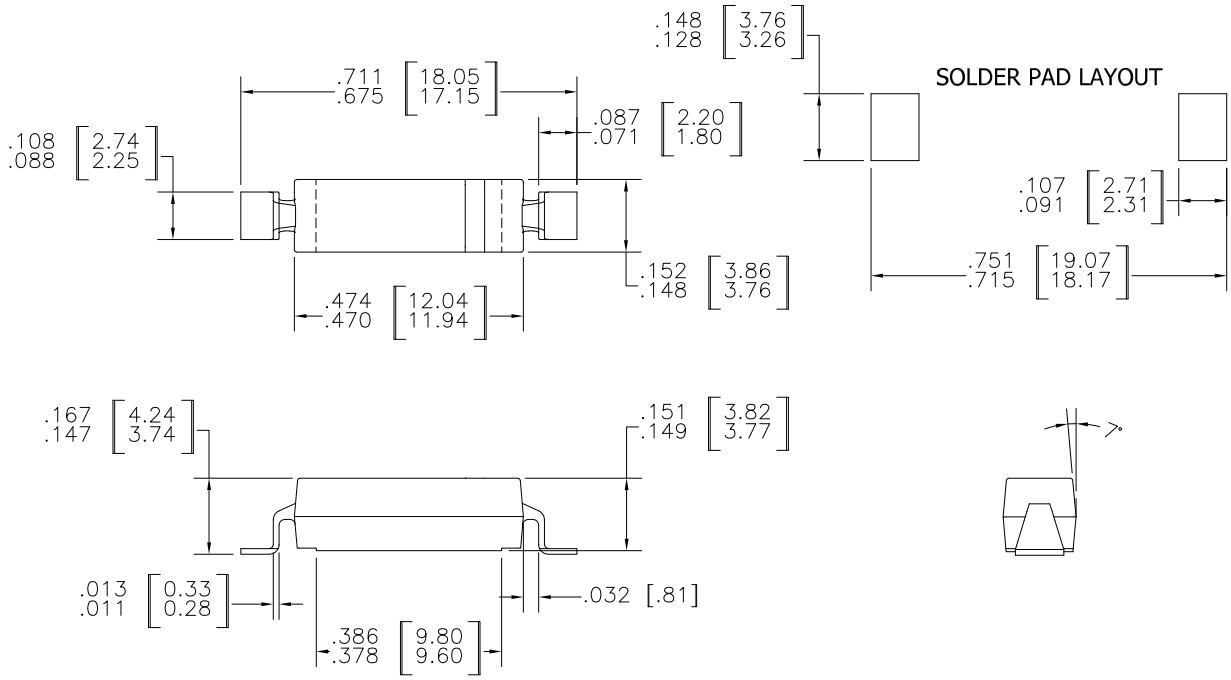
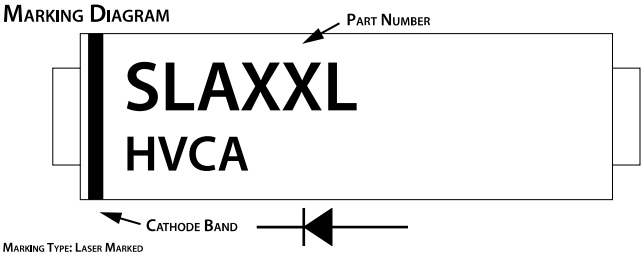


Figure 2 – Gullwing Subseries

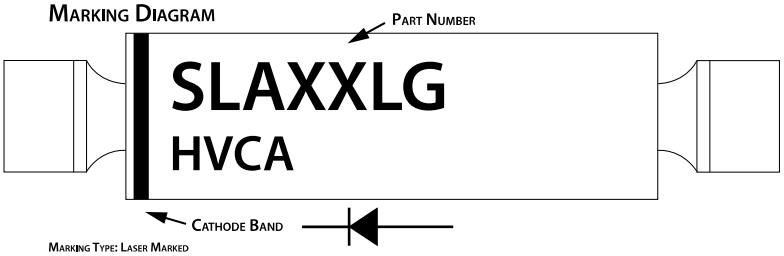


MARKING DIAGRAM



MARKING TYPE: LASER MARKED
(MARKINGS ARE SUBJECT TO MINOR CHANGES)

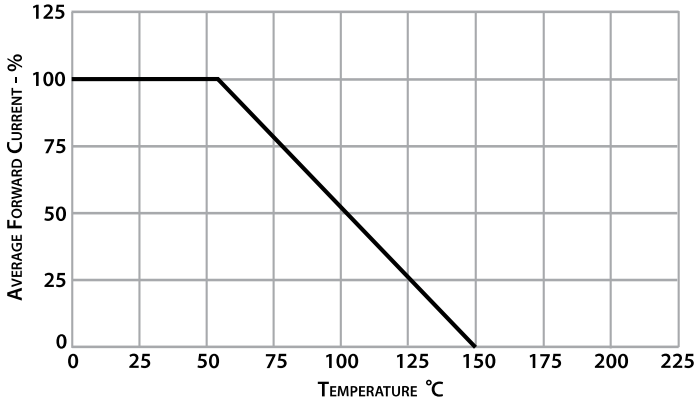
MARKING DIAGRAM



MARKING TYPE: LASER MARKED
(MARKINGS ARE SUBJECT TO MINOR CHANGES)

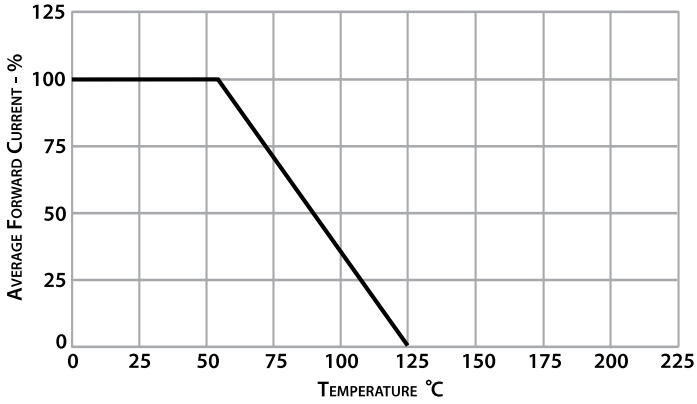
SLA05L to SLA06L, SLA05LG to SLA06LG

FORWARD CURRENT DERATING CURVE



SLA08L to SLA20L, SLA08LG to SLA20LG

FORWARD CURRENT DERATING CURVE



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}
$R_{\theta JL}$	Typical Thermal Resistance Junction to Lead	Device Mounted on 0.2” x 0.2” (5mm x 5mm) Copper Solder Pads
$R_{\theta JC}$	Typical Thermal Resistance Junction to Case	Device Mounted on 0.2” x 0.2” (5mm x 5mm) Copper Solder Pads

RoHS COMPLIANT

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