



SLU08M

8kV, 250mA, Fast Recovery
SMD High Voltage Diode

Features

- Surface mount, J-leaded package
- Available in cut tape and 1,000 piece reels
- UX-FOB design in longer surface mount, J-leaded package
- Molded plastic body, ANSI/UL94 V-0 rated material
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II, Annex III, 7(a) and EU RoHS Directive (EU) 2015/863 of March 2015, Amending Annex II

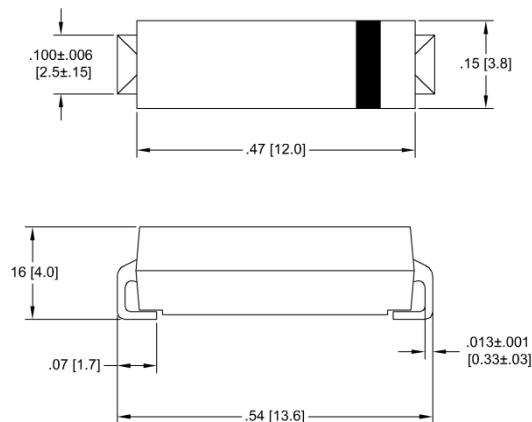


DEVICE ELECTRICAL CHARACTERISTICS

(25°C ambient temperature unless stated otherwise)

	Conditions	Symbol	Value		
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	8,000 Volts		
Average Forward Current Maximum	$T_A = 55^\circ\text{C}$	I_{FAVM}	250 mA		
Average Forward Current Maximum	$T_C = 80^\circ\text{C}$	I_{FAVM}	400 mA		
Average Forward Current Maximum	$T_L = 55^\circ\text{C}$	I_{FAVM}	850 mA		
Average Forward Current Maximum	$T_L = 100^\circ\text{C}$	I_{FAVM}	450 mA		
Thermal Resistance (typical) in °C/W	Leads mounted on 5mm x 5mm copper pad.	$R\theta$	$R\theta_{JA}$	$R\theta_{JC}$	$R\theta_{JL}$
			55	20	13
Maximum Forward Voltage Drop	$I_F = 100\text{mA}$	V_F	12 Volts		
Maximum Surge Current Rating	8.3msec, half sine	I_{FSM}	20 Amps		
Maximum Reverse Current	at rated V_{RRM}	I_R	0.5 μA		
Maximum Reverse Recovery Time	$I_F = 250\text{mA}$; $I_R = -500\text{mA}$; $I_{rr} = -125\text{mA}$	T_{RR}	40 ns		
Junction Capacitance (typical)	$f = 1\text{MHz}$, $V_r = 0\text{VDC}$	C_J	7.5 pf		
Maximum Junction Temperature	-	T_J	150°C		
Storage Temperature Range	-	T_{STG}	-55°C to 150°C		

MECHANICAL DATA:



DIMENSIONS IN INCHES (MM)

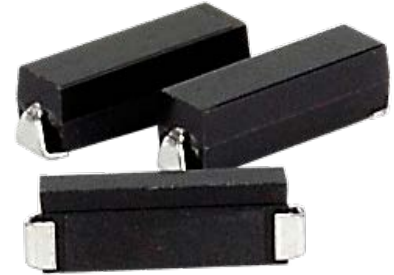


SLU15M

15KV, 120mA
SMD High Voltage Diode
Fast Recovery

Features

- Surface mount, J-leaded package
- Available in cut tape and 1,000 piece reels
- UX-F15B design in longer surface mount, J-leaded package
- Molded plastic body, ANSI/UL94 V-0 rated material
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II, Annex III, 7(a) and EU RoHS Directive (EU) 2015/863 of March 2015, Amending Annex II

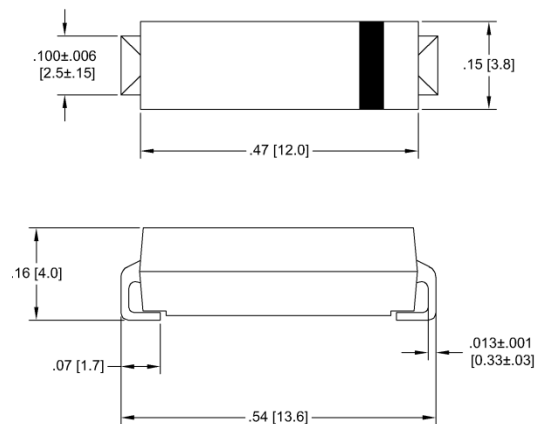


DEVICE ELECTRICAL CHARACTERISTICS

(25°C ambient temperature unless stated otherwise)

	Conditions	Symbol	Value		
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	15,000 Volts		
Average Forward Current Maximum	$T_A = 55^\circ\text{C}$	I_{FAVM}	120 mA		
Average Forward Current Maximum	$T_C = 80^\circ\text{C}$	I_{FAVM}	240 mA		
Average Forward Current Maximum	$T_L = 55^\circ\text{C}$	I_{FAVM}	450 mA		
Average Forward Current Maximum	$T_L = 100^\circ\text{C}$	I_{FAVM}	250 mA		
Thermal Resistance (typical) in °C/W	Leads mounted on 5mm x 5mm copper pad.	$R\theta$	$R\theta_{JA}$	$R\theta_{JC}$	$R\theta_{JL}$
			55	20	13
Maximum Forward Voltage Drop	$I_F = 100\text{mA}$	V_F	16 Volts		
Maximum Surge Current Rating	8.3msec, half sine	I_{FSM}	20 Amps		
Maximum Reverse Current	at rated V_{RRM}	I_R	0.5 μA		
Maximum Reverse Recovery Time	$I_F = 100\text{mA}$; $I_R = -200\text{mA}$; $I_{RR} = -50\text{mA}$	T_{RR}	50 ns		
Junction Capacitance (typical)	$f = 1\text{MHz}$, $V_r = 0\text{VDC}$	C_J	3.5 pf		
Maximum Junction Temperature	-	T_J	150°C		
Storage Temperature Range	-	T_{STG}	-55°C to 150°C		

MECHANICAL DATA:



DIMENSIONS IN INCHES (MM)