

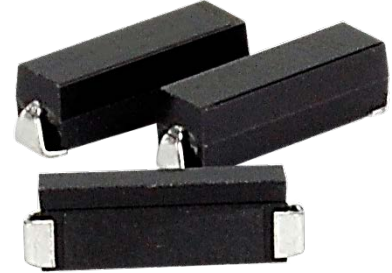


SLP05M

5KV, 180mA
SMD High Voltage Diode
Fast Recovery

Features

- Surface mount, J-leaded silicon diode design
- Available in cut tape and 1,000 piece reels
- 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

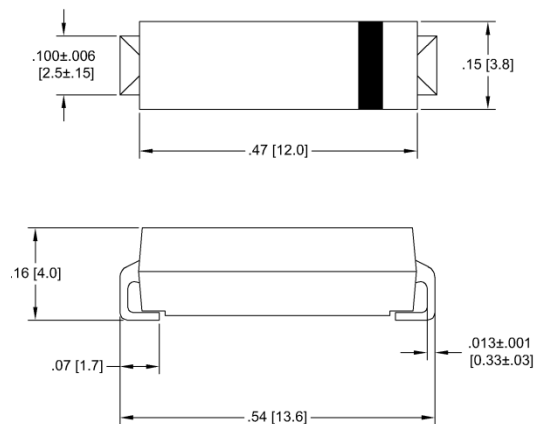


DEVICE ELECTRICAL CHARACTERISTICS

(25°C ambient temperature unless stated otherwise)

	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	5,000 Volts
Average Forward Current Maximum	$T_A = 55^\circ\text{C}$	I_{FAVM}	180 mA
Average Forward Current Maximum	$T_C = 55^\circ\text{C}$	I_{FAVM}	500 mA
Average Forward Current Maximum	$T_L = 55^\circ\text{C}$	I_{FAVM}	1000 mA
Average Forward Current Maximum	$T_L = 100^\circ\text{C}$	I_{FAVM}	500 mA
Thermal Resistance (typical) in °C/W	Leads mounted on 5mm x 5mm copper pad.	$R\theta$	$R\theta_{JA}$ 70 $R\theta_{JC}$ 27 $R\theta_{JL}$ 17
Maximum Forward Voltage Drop	$I_F = 200\text{mA}$	V_F	8.5 Volts
Maximum Surge Current Rating	8.3msec, half sine	I_{FSM}	15 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}	75 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)

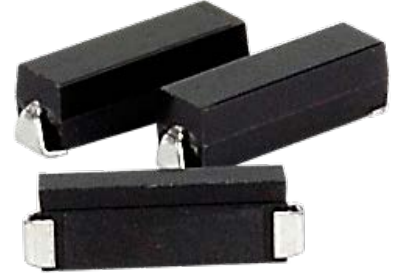


SLP10M

10KV, 100mA
SMD High Voltage Diode
Fast Recovery

Features

- Surface mount, J-leaded silicon diode design
- Available in cut tape and 1,000 piece reels
- 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

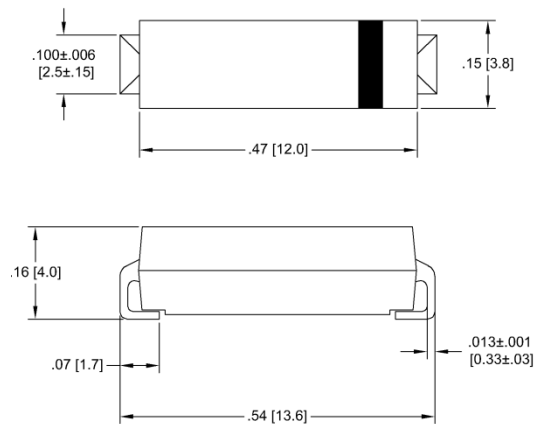


DEVICE ELECTRICAL CHARACTERISTICS

(25°C ambient temperature unless stated otherwise)

	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	10,000 Volts
Average Forward Current Maximum	$T_A = 55^\circ\text{C}$	I_{FAVM}	100 mA
Average Forward Current Maximum	$T_C = 55^\circ\text{C}$	I_{FAVM}	300 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}	230 mA
Thermal Resistance (typical) in °C/W	Leads mounted on 5mm x 5mm copper pad.	$R\theta$	$R\theta_{JA}$ 70 $R\theta_{JC}$ 27 $R\theta_{JL}$ 17
Maximum Forward Voltage Drop	$I_F = 200\text{mA}$	V_F	15.8 Volts
Maximum Surge Current Rating	8.3msec, half sine	I_{FSM}	15 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}	75 ns
Junction Capacitance (typical)	$f = 1\text{MHz}$, $V_r = 0\text{VDC}$	C_J	3.7 pf
Maximum Junction Temperature	-	T_J	150°C
Storage Temperature Range	-	T_{STG}	-55°C to 150°C

MECHANICAL DATA:



DIMENSIONS IN INCHES (MM)