

## 10kV 6.0A POTTING TYPE HV SUBASSEMBLY

### Outline Drawings

#### Features

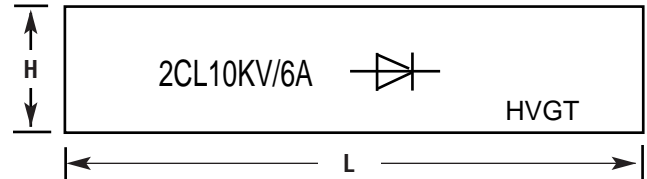
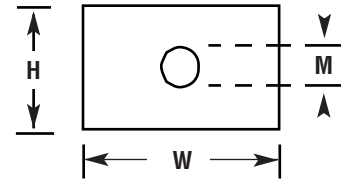
- Diffused Junction
- High Voltage Capability
- High Case Dielectric Strength
- Low frequency
- Plastic Material has Underwriters Laboratory
- Flammability Classification 94V-O

#### Mechanical Data

- Case: Molded Plastic
- Polarity: Marked on Body
- Weight: 118 grams (approx.)
- Mounting Position: Through Hole for #5 Screw
- Marking: Type Number

#### Maximum Ratings and Characteristics

- Absolute Maximum Ratings



Shape Size(Unit: mm)			
L	W	H	M
150	25	20	5

Items	Symbols	Condition	2CL10KV/6A	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$		10	kV
Average Output Current	$I_o$	$T_a=30^{\circ}\text{C}$ , Resistive Load	6.0	$A_{peak}$
Surge Current	$I_{FSM}$		120	$A_{peak}$
Junction Temperature	$T_j$		125	$^{\circ}\text{C}$
Allowable Operation Case Temperature	$T_c$		125	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$		-40 to +125	$^{\circ}\text{C}$

- Electrical Characteristics ( $T_a=25^{\circ}\text{C}$  Unless otherwise specified)

Items	Symbols	Conditions	2CL10KV/6A	Units
Maximum Forward Voltage Drop	$V_F$	at $25^{\circ}\text{C}$ , $I_F = I_{F(AV)}$	12	V
Maximum Reverse Current	IR1	at $25^{\circ}\text{C}$ , $V_R = V_{RRM}$	20	$\mu\text{A}$
	IR2	at $100^{\circ}\text{C}$ , $V_R = V_{RRM}$	200	$\mu\text{A}$
Maximum Reverse Recovery Time	$T_{rr}$	at $25^{\circ}\text{C}$ $I_F=100\text{mA}$ $I_{rm}=200\text{mA}$	--	nS
Junction Capacitance	$C_j$	at $25^{\circ}\text{C}$ , $V_R=0\text{V}$ , $f=1\text{MHz}$	--	pF