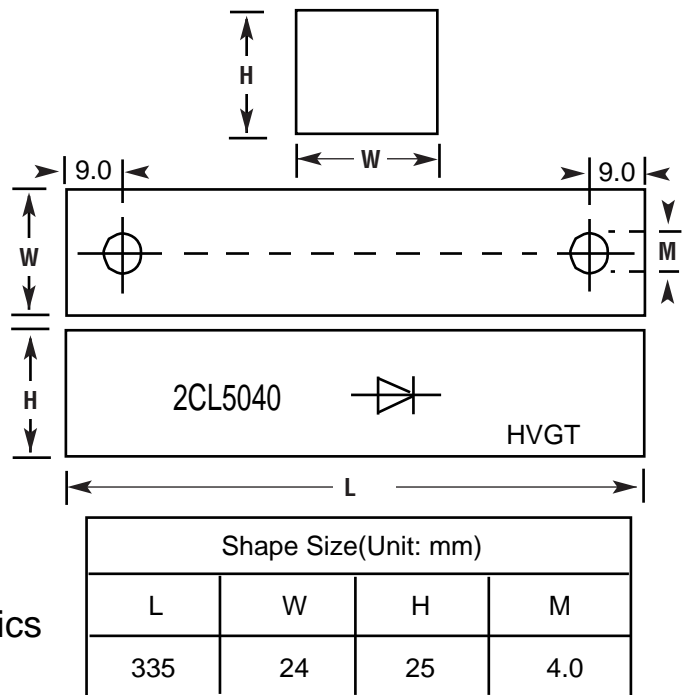


40kV 5.0A POTTING TYPE HV SUBASSEMBLY

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: 333.5 grams (approx.)
- Mounting Position: Through Hole for # 4 Screw
- Marking: Type Number

Maximum Ratings and Characteristics

- Absolute Maximum Ratings

Items	Symbols	Condition	2CL5040	Units
Repetitive Peak Reverse Voltage	V_{RRM}		40	kV
Average Output Current	I_o	$T_a=30^{\circ}\text{C}$, Resistive Load	5.0	A_{peak}
Surge Current	I_{FSM}		100	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	2CL5040	Units
Maximum Forward Voltage Drop	V_F	at 25°C , $I_F = I_{F(AV)}$	48	V
Maximum Reverse Current	IR1	at 25°C , $V_R = V_{RRM}$	20	μA
	IR2	at 100°C , $V_R = V_{RRM}$	200	μA
Maximum Reverse Recovery Time	T_{rr}	at 25°C $I_F=100\text{mA}$ $I_{rm}=200\text{mA}$	--	nS
Junction Capacitance	C_j	at 25°C , $V_R=0\text{V}$, $f=1\text{MHz}$	--	pF