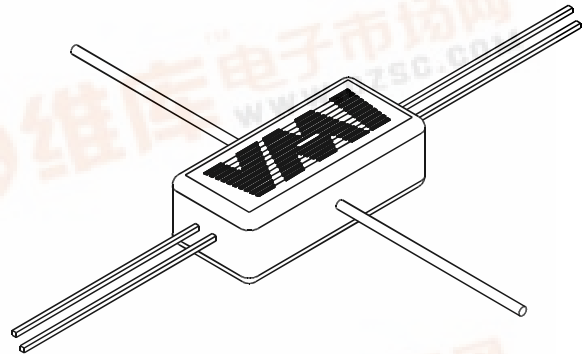
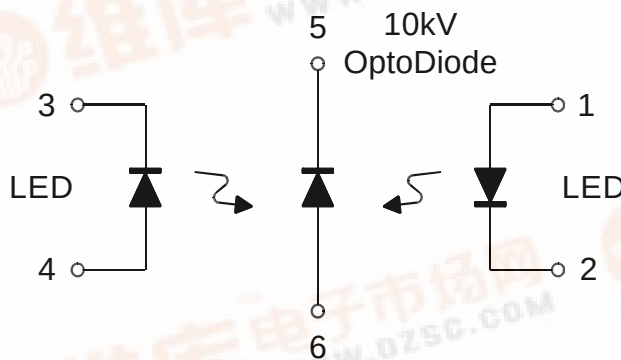


Opto Coupler

OC100



ABSOLUTE MAXIMUM RATINGS

LED

- Forward DC Current 100 mA
- Surge Current 2.5 A
- Reverse Voltage 5 V
- Power Dissipation 200 mW at 25°C

Photodiode

- Reverse Voltage 10,000 V
- Power Dissipation 1W

- Storage Temperature -40°C to +125°C
- Operating Temperature -40°C to +100°C
- Isolation Test Voltage 25 kV (Pins 1, 2, 3, & 4 tied to pins 5 & 6)

ELECTRICAL CHARACTERISTICS

LED

- Forward Voltage ($I_f = 100 \text{ mA}$) 1.5 V
- Reverse Leakage Current 10nA $V_R = 5 \text{ V}$

Photodiode

- Forward Voltage ($I_f = 0.6 \text{ A}$) 12.0 V MAX
- Reverse Leakage Current Typical $V_R = 10 \text{ kV}$, $I_{LED} = 0 \text{ mA}$ 250 nA $V_R = 10 \text{ kV}$, $I_{LED} = 100 \text{ mA}$ 100 μA

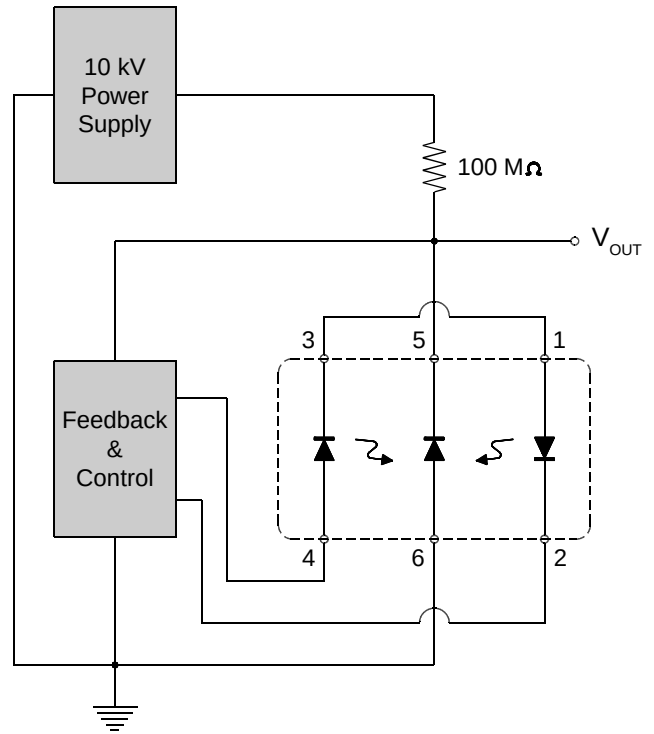
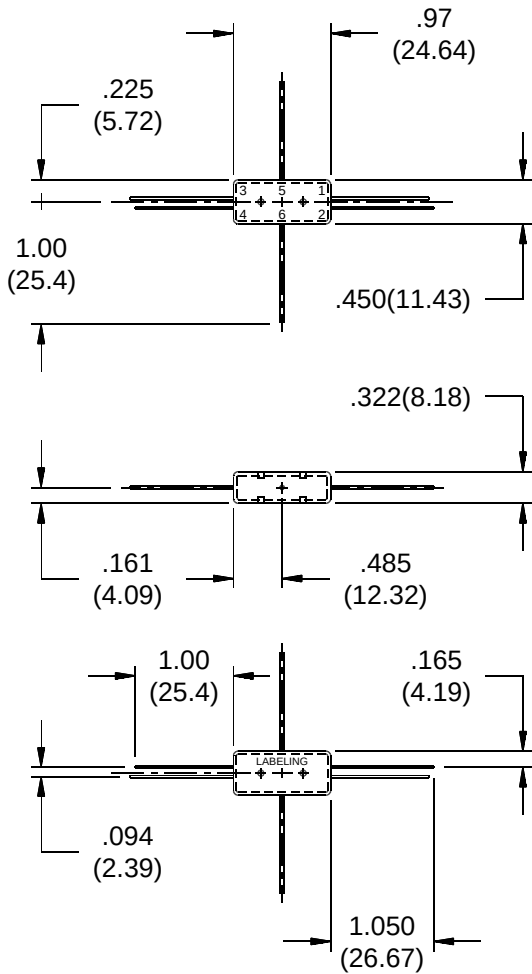
Coupled

- DC Current Transfer Ratio 0.1%
- T_{ON} 2 μs
- T_{OFF} 2 μs

All ratings at 25°C unless otherwise noted.



OC100



Typical HV Linear Regulator Circuit

- Select resistor value to optimize circuit for V_{OUT} and I_{OUT} range.

