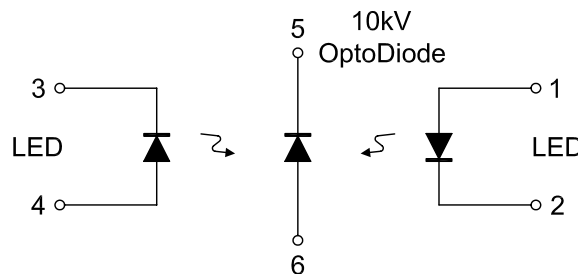
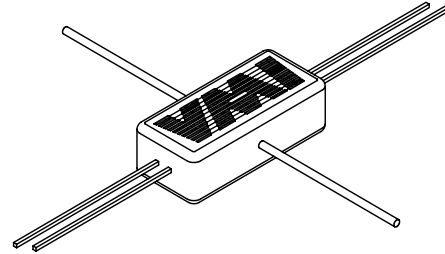


Opto Coupler

OC100HG

- High Current Gain
- High Isolation Voltage
- RoHS Compliant



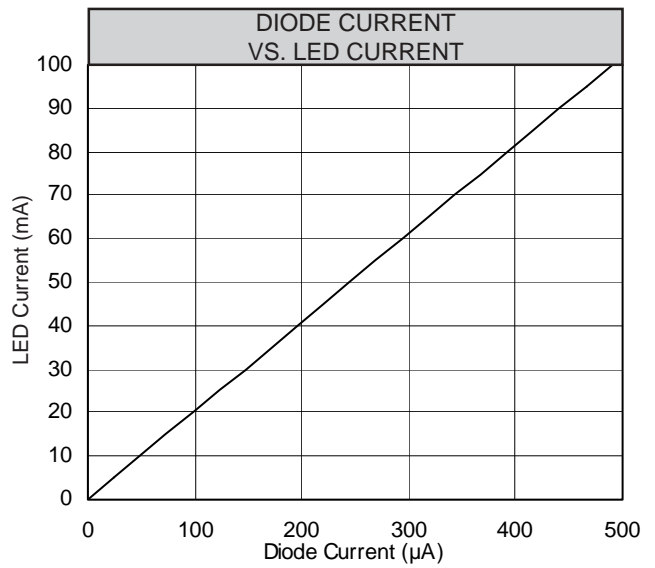
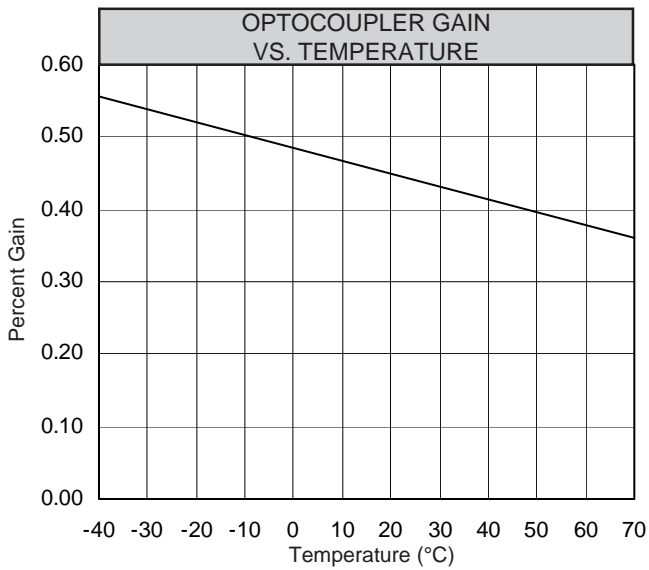
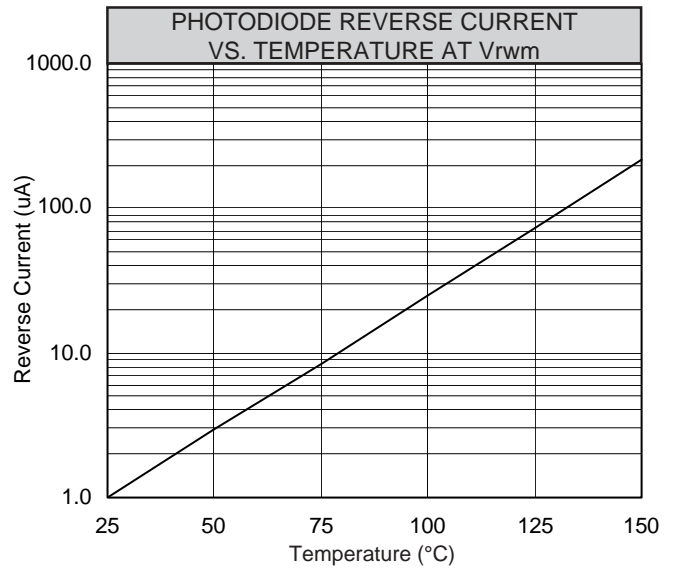
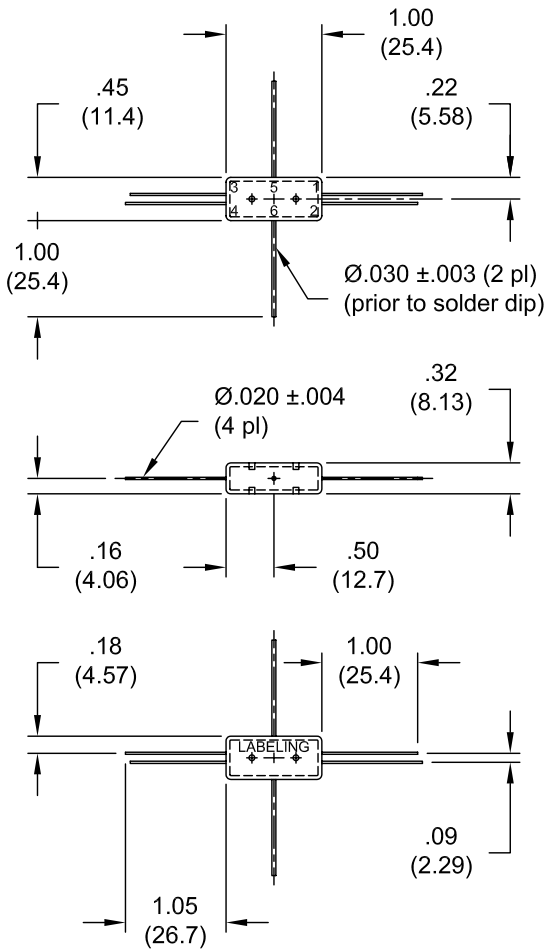
ABSOLUTE MAXIMUM RATINGS		ELECTRICAL CHARACTERISTICS	
LED		LED	
• Forward DC Current	100 mA	• Forward Voltage (If = 20 mA)	1.5 V
• Surge Current	500 mA	• Reverse Leakage Current	100 nA
• Reverse Voltage	5 V	VR = 5 V	
• Power Dissipation (25°C)	190 mW	Photodiode	
Photodiode		• Forward Voltage (If = 0.6 A)	12.0 V MAX
• Reverse Voltage	10,000 V	• Reverse Leakage Current	
• Power Dissipation	1.0 W	VR = 10 kV, I _{LED} = 0 mA	250 nA Typical
<hr/>		VR = 10 kV, I _{LED} = 50 mA	230 µA Typical
• Storage Temperature	-40°C to +100°C	Coupled	
• Operating Temperature	-40°C to +70°C	• DC Current Transfer Ratio	0.38% MIN / 0.60% MAX
• Isolation Test Voltage	25 kV (From Pins 1, 2, 3 & 4 to Pins 5 & 6)	• T _{ON}	2 µs
		• T _{OFF}	2 µs
		(25°C UNLESS OTHERWISE NOTED)	



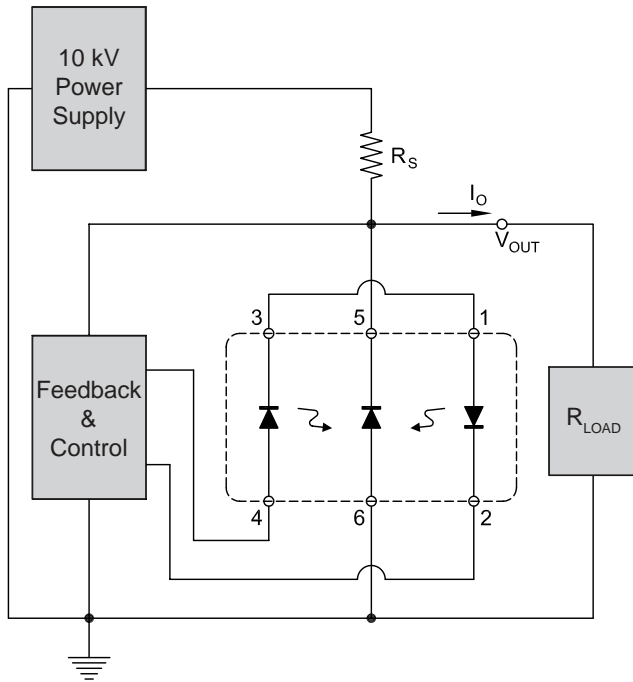
VOLTAGE MULTIPLIERS INC.
 8711 W. Roosevelt Ave.
 Visalia, CA 93291

TEL 559-651-1402
 FAX 559-651-0740
www.voltagemultipliers.com

OC100HG



OC100HG



Typical HV Linear Regulator Circuit

- The two graphs below represent the relationship between output voltage and LED current with different values of R_s .
- Output voltage is found by the following formula:

$$V_{OUT} = V_{IN} - \{ [I_{OUT} + (I_{LED} * Gain)] * R_s \}$$
- Select resistor value to optimize circuit for V_{OUT} and I_{OUT} range.

