

# OC150G OC150HG

Revised: 09-07-22

## Opto Coupler • Axial Leaded • Epoxy Molded

### ABSOLUTE MAXIMUM RATINGS

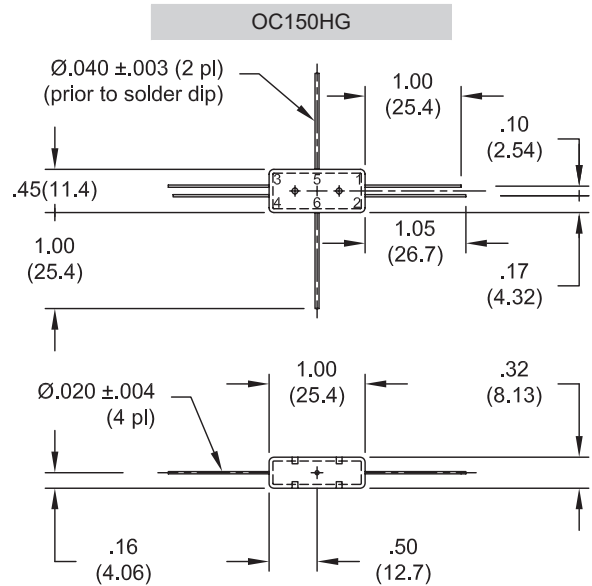
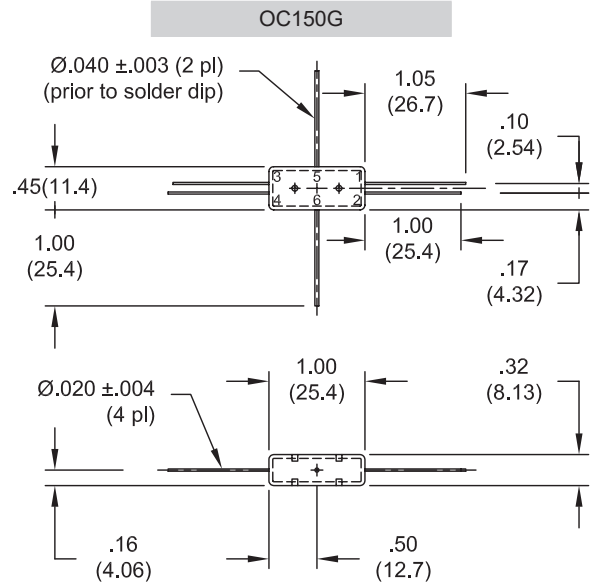
	OC150G	OC150HG
LED		
Forward DC Current	100mA	
Surge Current	(tp = 100 $\mu$ s) 1.5A	(tp = 100 $\mu$ s) 1.0A
Reverse Voltage	5 V	
Power Dissipation	(25°C) 190 mW	(25°C) 180 mW
Photodiode		
Reverse Voltage	15,000 V	
Power Dissipation	1.0 W	

- Storage Temperature: -40°C to +100°C
- Operating Temperature: -40°C to +70°C
- Isolation Test Voltage: 25 kV (From Pins 1, 2, 3, & 4 to Pins 5 & 6)

### ELECTRICAL CHARACTERISTICS

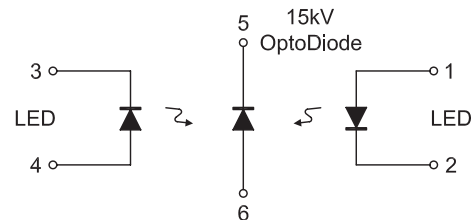
	OC150G	OC150HG
LED		
Forward Voltage	(If = 100 mA) 1.5V	
Reverse Leakage Current VR = 5V	Not Designed for Reverse Operation	
Photodiode		
Forward Voltage	(If = 0.3 A) 18.0 V MAX	
Reverse Leakage Current		
VR = 15kV, I <sub>LED</sub> = 0 mA	250 nA Typical	
VR = 15kV, I <sub>LED</sub> = 50 mA	185 $\mu$ A Typical	210 $\mu$ A Typical
Coupled		
DC Current Transfer Ratio		
I <sub>LED</sub> = 50 mA, VR = 15kV	0.20% MIN	0.28% MIN
t <sub>ON</sub> = (Typical)	2 $\mu$ s	
t <sub>OFF</sub> = (Typical)	2 $\mu$ s	

(25°C UNLESS OTHERWISE NOTED)



Tolerance:  
.XXX ±.020

### Simplified Circuit Schematic



Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.



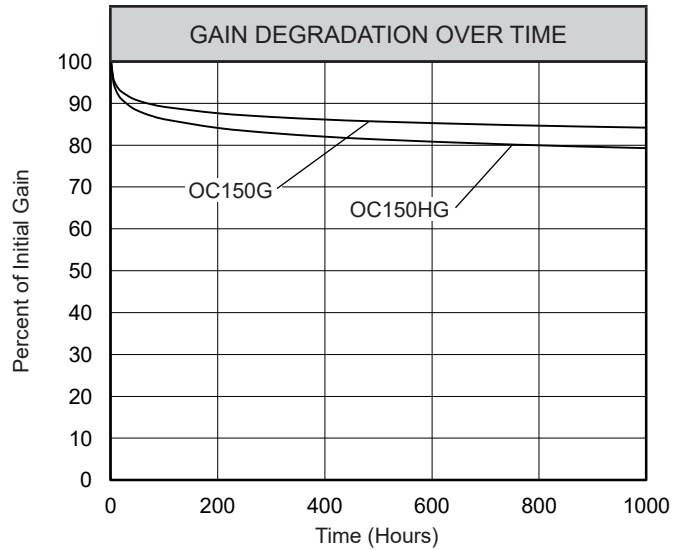
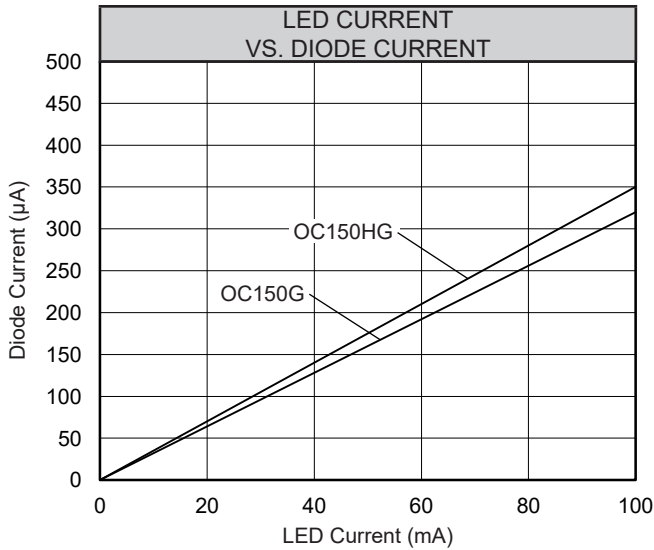
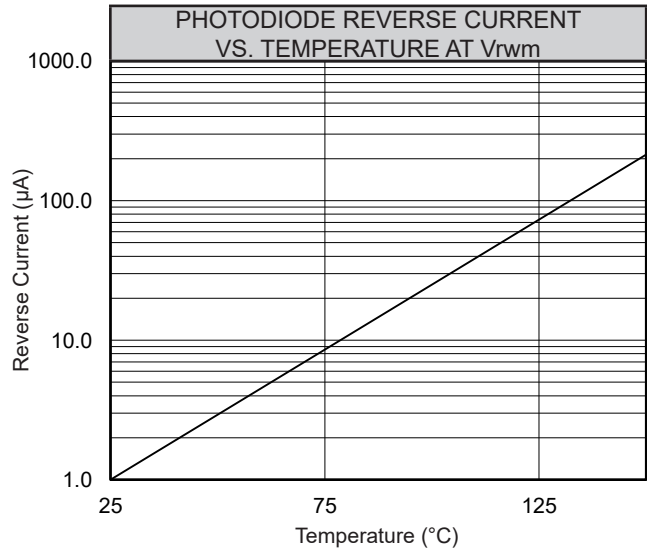
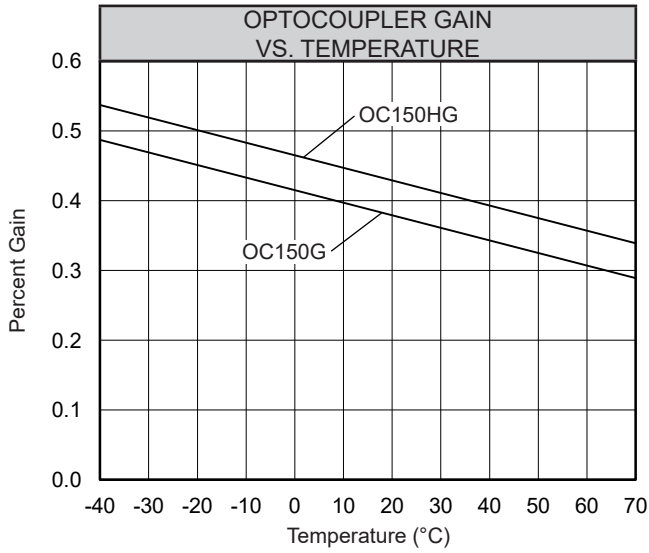
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