

# OC100 OC100G OC100HG

Original Released: 09-10-15

## Opto Coupler • Axial Leded • Epoxy Molded

### ABSOLUTE MAXIMUM RATINGS

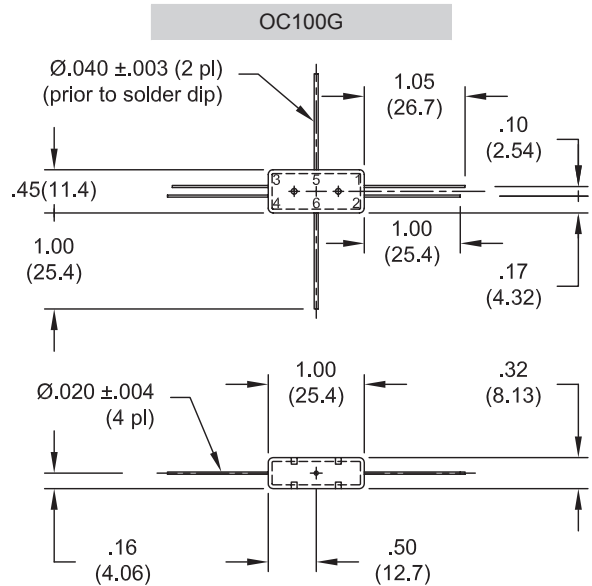
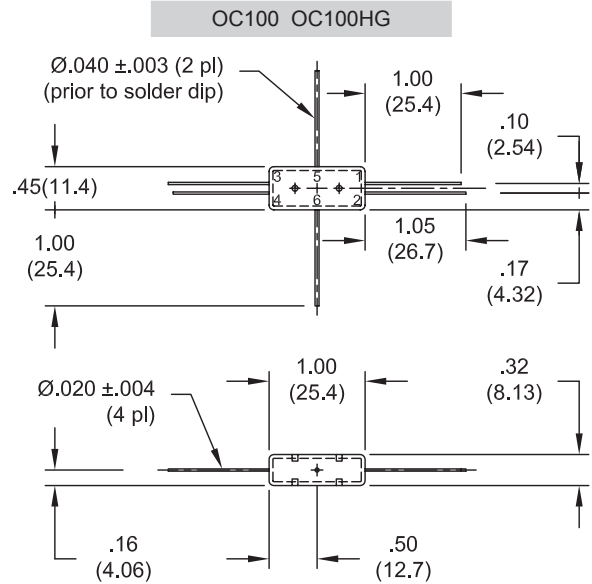
	OC100	OC100G	OC100HG
LED			
Forward DC Current	100mA		
Surge Current	(tp = 10 μs) 2.5A	(tp = 100 μs) 1.5A	(tp = 100 μs) 1.0A
Reverse Voltage	5 V		
Power Dissipation	(25°C) 200 mW	(25°C) 160 mW	(25°C) 180 mW
Photodiode			
Reverse Voltage	10,000 V		
Power Dissipation	1.0 W		

- 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

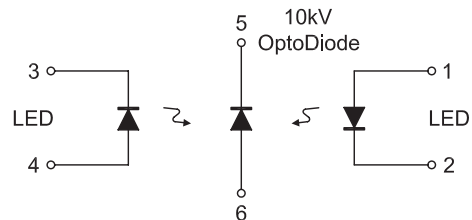
	OC100	OC100G	OC100HG
LED			
Forward Voltage	(If = 100 mA) 1.5V		
Reverse Leakage Current VR = 5V	10 nA	Not Designed for Reverse Operation	
Photodiode			
Forward Voltage	(If = 0.6 A) 12.0 V MAX		
Reverse Leakage Current	250 nA Typical		
VR = 10kV, I <sub>LED</sub> = 50 mA	50 μA Typical	200 μA Typical	250 μA Typical
Coupled			
DC Current Transfer Ratio			
I <sub>LED</sub> = 50 mA, VR = 10kV	0.064% MIN	0.32% MIN	0.38% MIN
t <sub>ON</sub> = (Typical)	2 μs		
t <sub>OFF</sub> = (Typical)	2 μs		

(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.



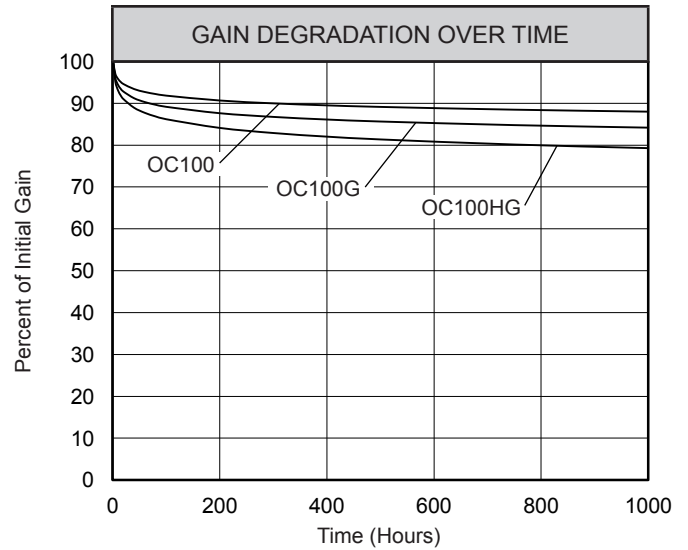
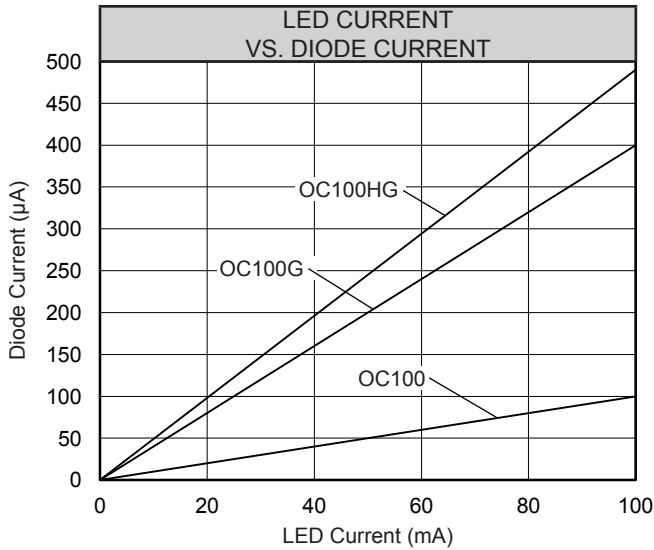
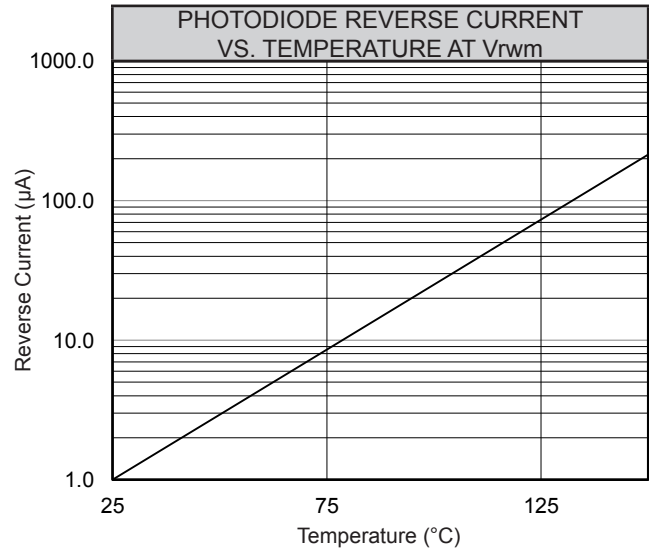
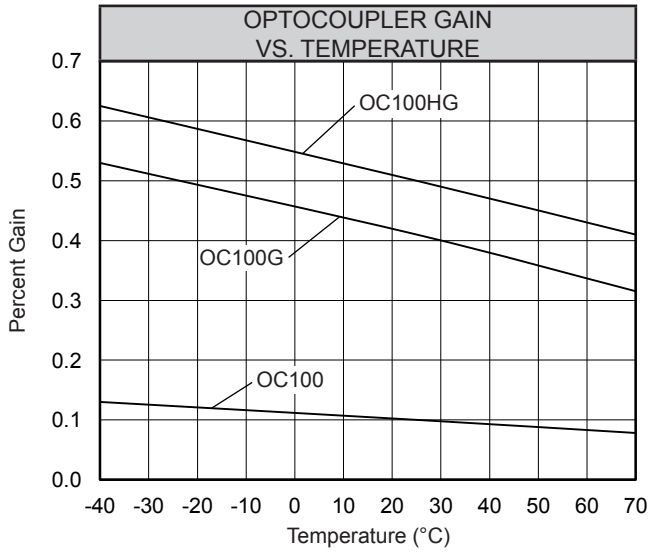
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