High Power LED

OSW Series

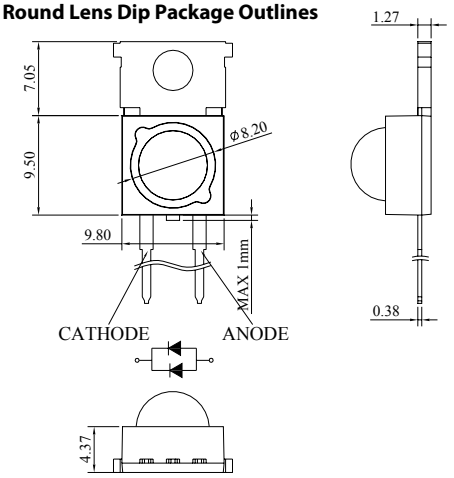
Features:

- High luminous flux
- Excellent heat transfer
- Versatile package with lens

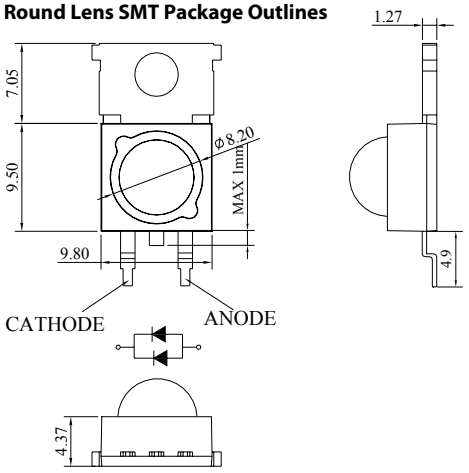
Maximum Ratings at Ta=25°C

Reverse Voltage (<100μA)	5.0V
D.C. Forward Current	700mA
Pulse Current (tp ⩽ 100μs, duty cycle = 0.005)*1	1000mA
Operating Temperature Range	-40 to +75°C
Storage Temperature Range	-40 to +105°C
Soldering Temperature Reflow Soldering	260°C for 10 secs
Soldering Temperature Hand Soldering	350°C for 3 secs

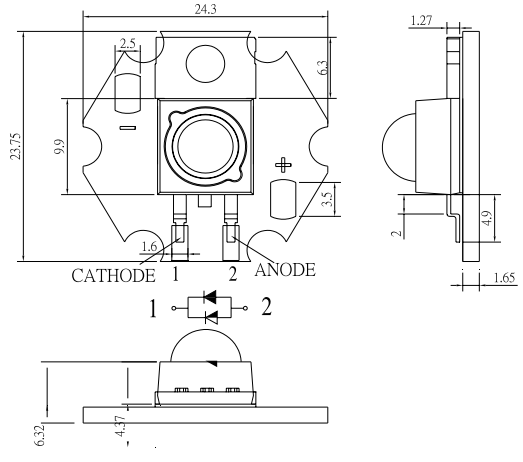
Round Lens Dip Package Outlines



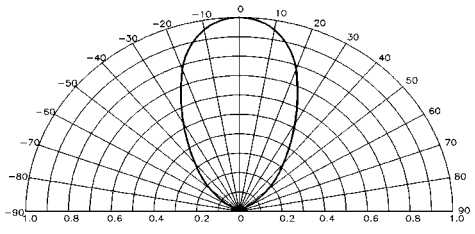
Round Lens SMT Package Outlines



Round Lens SMT & Heat Sink Package Outlines



Typical Radiation Pattern for Round Lens(2θ1/2：60±10°)



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Electrical & Optical Characteristics at Ta=25°C

Ant Part No.	Lens Type	Emitted Colour	Package	Luminous Flux (1m) at 700mA min.	Luminous Flux (1m) at 700mA max.	Forward Voltage (V) at 700mA min.	Forward Voltage (V) at 700mA max.	Wavelength (nm) min.	Wavelength (nm) max.	Thermal Resistance Junction to Case (°C/W)	Thermal Resistance Junction to Board (°C/W)	Reverse Current (μA)	Temp Co-Efficient of Forward Voltage (mV/°C)
OSW- 4303	Round Lens (°60)	Blue	Dip	7.0	23.5	2.7	4.25	460	475	10	-	100	-2
OSW- 6303	Round Lens (°60)	Blue	SMT							10	-		
OSW- 8303	Round Lens (°60)	Blue	SMT & Heat Sink							-	20		
OSW- 4334	Round Lens (°60)	Green	Dip	30.5	67.0	2.7	4.25	520	535	10	-	100	-2
OSW- 6334	Round Lens (°60)	Green	SMT							10	-		
OSW- 8334	Round Lens (°60)	Green	SMT & Heat Sink							-	20		
OSW- 4336	Round Lens (°60)	Yellow	Dip	23.5	51.6	1.8	2.8	585	595	10	-	100	-2
OSW- 6336	Round Lens (°60)	Yellow	SMT							10	-		
OSW- 8336	Round Lens (°60)	Yellow	SMT & Heat Sink							-	20		
OSW- 4338	Round Lens (°60)	Red	Dip	23.5	51.6	1.8	2.8	620	630	10	-	100	-2
OSW- 6338	Round Lens (°60)	Red	SMT							10	-		
OSW- 8338	Round Lens (°60)	Red	SMT & Heat Sink							-	20		

Ant Part No.	Lens Type	Emitted Colour	Package	Luminous Flux (1m) at 700mA min.	Luminous Flux (1m) at 700mA max.	Forward Voltage (V) at 700mA min.	Forward Voltage (V) at 700mA max.	Colour Temp. (°K) min.	Colour Temp. (°K) max.	Thermal Resistance Junction to Case (°C/W)	Thermal Resistance Junction to Board (°C/W)	Reverse Current (μA)	Temp Co-Efficient of Forward Voltage (mV/°C)
OSW- 4301	Round Lens (°60)	White	Dip	67	147.6	2.7	4.25	5000	9000	10	-	100	-2
OSW- 6301	Round Lens (°60)	White	SMT							10	-		
OSW- 8301	Round Lens (°60)	White	SMT & Heat Sink							-	20		
OSW- 4302	Round Lens (°60)	Warm White	Dip	67	147.6	2.7	4.25	2700	3700	10	-	100	-2
OSW- 6302	Round Lens (°60)	Warm White	SMT							10	-		
OSW- 8302	Round Lens (°60)	Warm White	SMT & Heat Sink							-	20		

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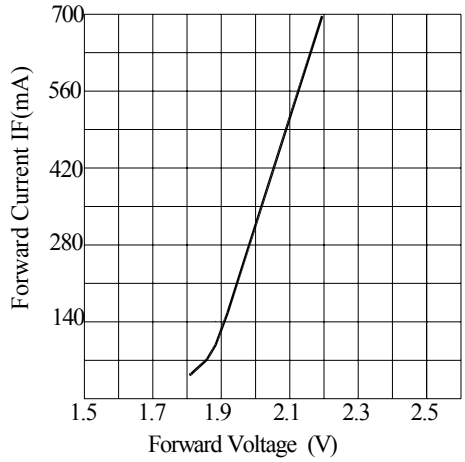
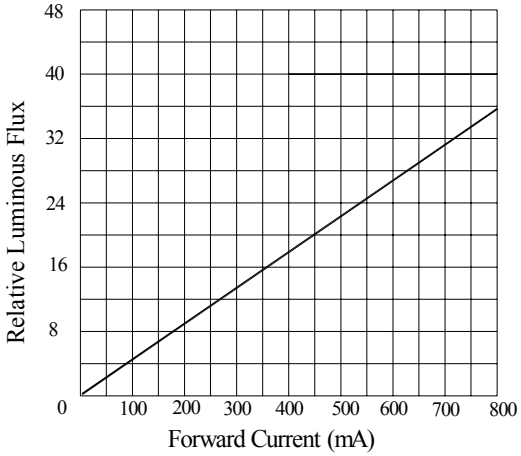
Typical Electrical/Optical Characteristic Curves

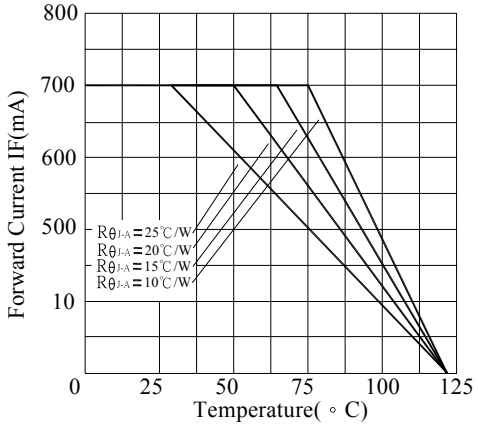
(25℃ Ambient Temperature Unless Otherwise Noted)



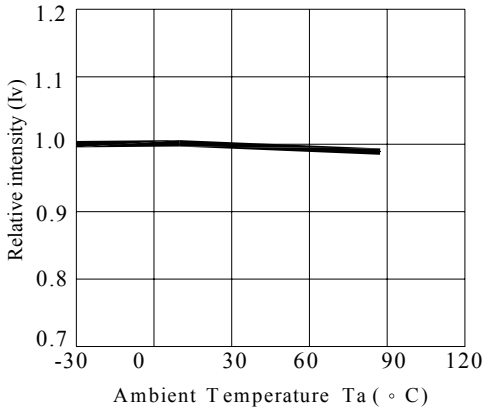
Forward Current VS. Applied Voltage



Forward Current VS. Applied Voltage



Ambient Temperature VS. Forward Current



Relative intensity VS. Ambient Temperature