

High Power LED

OSW Series

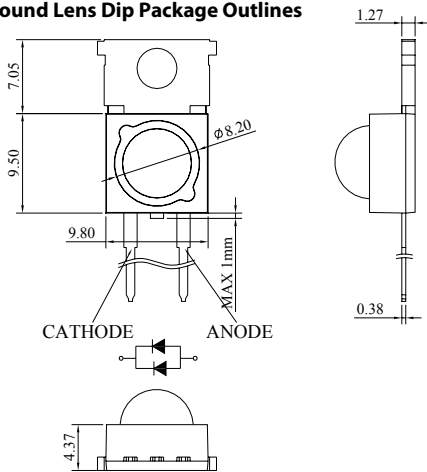
Features:

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

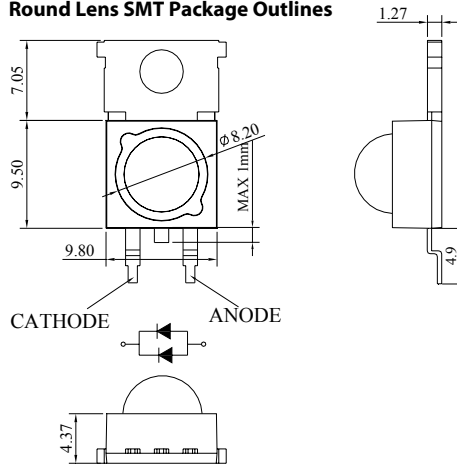
Maximum Ratings at Ta=25°C

Reverse Voltage (<math><100\mu A</math>)	5.0V
D.C. Forward Current	700mA
Pulse Current ($t_p \leq 100\mu s$, 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

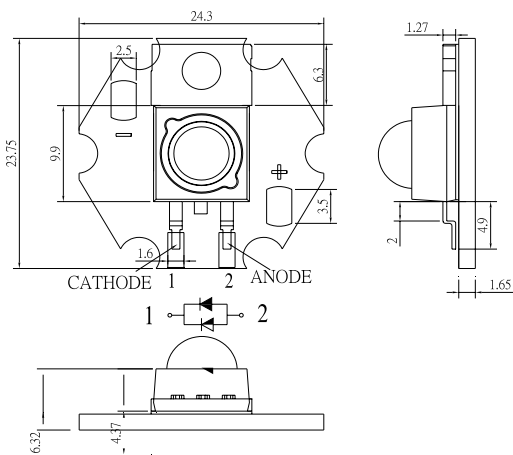
Round Lens Dip Package Outlines



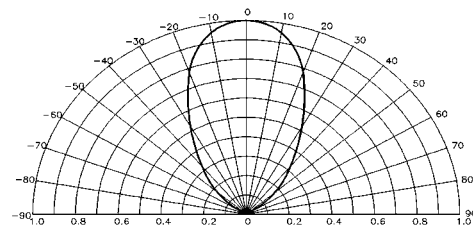
Round Lens SMT Package Outlines



Round Lens SMT & Heat Sink Package Outlines



Typical Radiation Pattern for Round Lens(201/2 : 60±10°)



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Electrical & Optical Characteristics at Ta=25°C

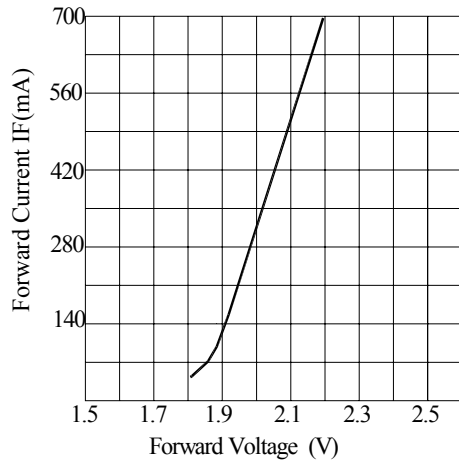
Ant Part No.	Lens Type	Emitted Colour	Package	Luminous Flux (lm) at 700mA		Forward Voltage (V) at 700mA		Wavelength (nm)		Thermal Resistance Junction to Case (°C/W)	Thermal Resistance Junction to Board (°C/W)	Reverse Current (µA)	Temp Co-Efficient of Forward Voltage (mV/°C)
				min.	max.	min.	max.	min.	max.				
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 (lm) at 700mA		Forward Voltage (V) at 700mA		Colour Temp. (°K)		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)
				min.	max.	min.	max.	min.	max.				
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		

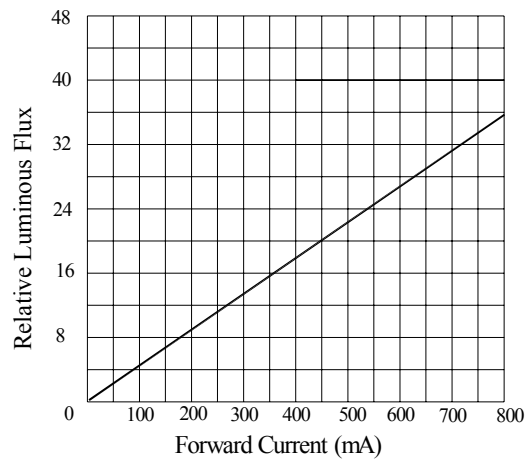
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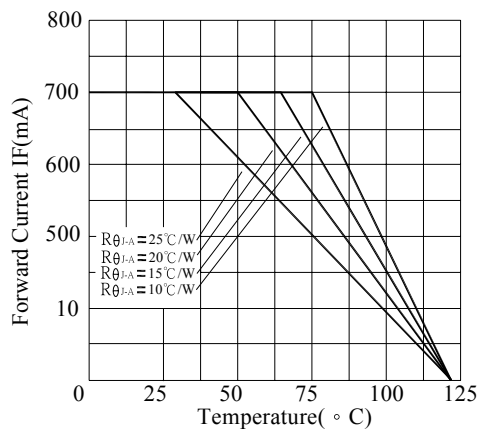
Typical Electrical/Optical Characteristic Curves (25°C Ambient Temperature Unless Otherwise Noted)



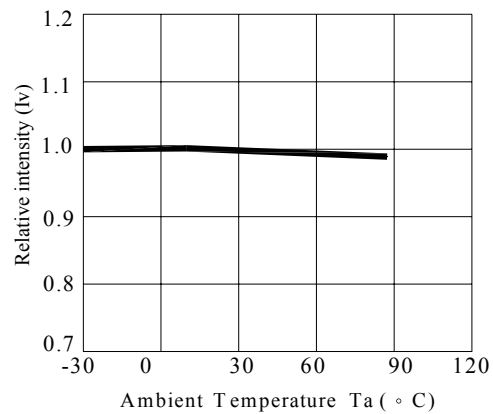
Forward Current VS. Applied Voltage



Forward Current VS. Applied Voltage



Ambient Temperature VS. Forward Current



Relative intensity VS. Ambient Temperature

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