

PL12 Series 5mm (T1 3/4) LED

Features

- *Flanged
- *Available in Color, White Diffused (WD), Color Transparent (CT), and Water Clear

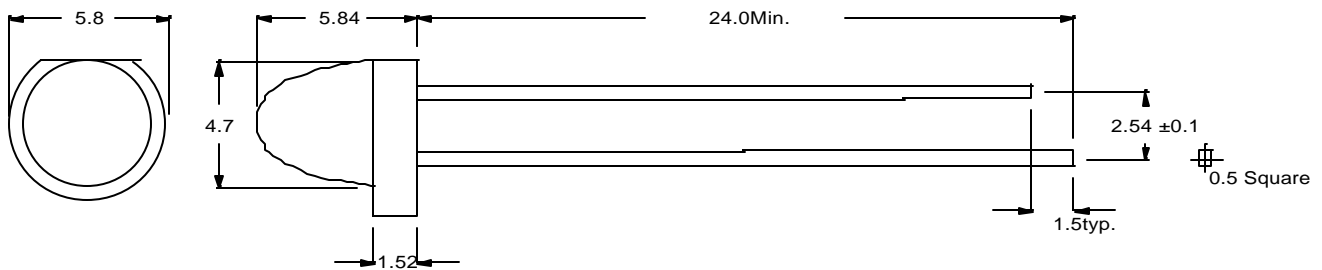
Absolute Maximum Ratings at T_A = 25 °C

Reverse Voltage (<100μA).....	5.0V
Max Forward Current.....	30mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width).....	100mA
Operating Temperature Range.....	-25°C to + 85°C
Storage Temperature Range.....	-25°C to +100°C
Soldering Temperature (1.6mm below body).....	260° for 5 seconds

Electrical & Optical Characteristics at T_A = 25 °C

Part Number		Emitting Color	Material	Peak Wave Length	View Angle 2θ ½	Forward Voltage @20mA (V)		Luminous Intensity @20mA (mcd)	
						Typ	Max	Min	Typ
Color Diffused	White Diffused			(nm)	Deg	Typ	Max	Min	Typ
PL12-CDR24	PL12-WDR24	Bright Red	GaP	700	36°	2.1	3.0	2.0	5.1
PL12-CDR12	PL12-WDR12	Hi Eff Red	GaAsP on GaP	635		2.1	3.0	9.2	15.3
PL12-CDG13	PL12-WDG13	Green	GaP	567		2.1	3.0	8.0	13.3
PL12-CDY01	PL12-WDY01	Yellow	GaAsP on GaP	585		2.1	3.0	6.5	10.8
PL12-CDA02	PL12-WDA02	Amber	GaAsP on GaP	610		2.1	3.0	9.2	15.3
PL12-CDO12	PL12-WDO12	Orange	GaAsP on GaP	635		2.1	3.0	9.2	15.3
Color Transparent	Water Clear			(nm)		Deg	Typ	Max	Min
PL12-CTR24	PL12-WCR24	Bright Red	GaP	700	30°	2.1	3.0	10.5	17.5
PL12-CTR12	PL12-WCR12	Hi Eff Red	GaAsP on GaP	635		2.1	3.0	31.3	52.0
PL12-CTG13	PL12-WCG13	Green	GaP	567		2.1	3.0	27.2	45.2
PL12-CTY01	PL12-WCY01	Yellow	GaAsP on GaP	585		2.1	3.0	22.0	36.6
PL12-CTA02	PL12-WCA02	Amber	GaAsP on GaP	610		2.1	3.0	31.3	52.0
PL12-CTO12	PL12-WCO12	Orange	GaAsP on GaP	635		2.1	3.0	31.3	52.0

Package Dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified.
An Epoxy Meniscus may extend about 1 mm. down the leads.



PL12 Series 5 Volt 5mm (T1 3/4) LED

Features

- *Flanged
- *Available in Color, White Diffused (WD), Color Transparent (CT), and Water Clear
- *Available with Integrated Current Limiting Resistor for 12V operation

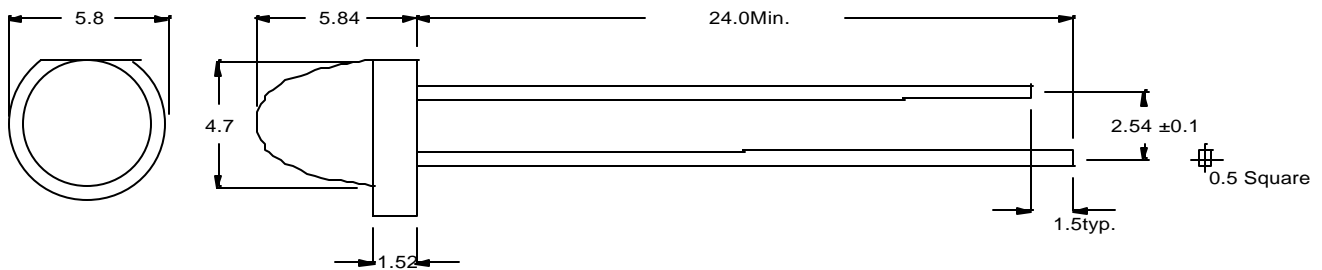
Absolute Maximum Ratings at T_A = 25 °C

Reverse Voltage (<100µA).....	5.0V
Max Forward Current.....	30mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width).....	100mA
Operating Temperature Range.....	-25°C to + 85°C
Storage Temperature Range.....	-25°C to +100°C
Soldering Temperature (1.6mm below body).....	260° for 5 seconds

Electrical & Optical Characteristics at T_A = 25 °C

Part Number		Emitting Color	Material	Peak Wave Length	View Angle 2θ ½	Forward Voltage @20mA (V)		Luminous Intensity @20mA (mcd)	
						Typ	Max	Min	Typ
Color Diffused	White Diffused			(nm)	Deg	Typ	Max	Min	Typ
PL12-CDR24-5V	PL12-WDR24-5V	Bright Red	GaP	700	36°	5.0	7.0	2.0	5.1
PL12-CDR12-5V	PL12-WDR12-5V	Hi Eff Red	GaAsP on GaP	635		5.0	7.0	9.2	15.3
PL12-CDG13-5V	PL12-WDG13-5V	Green	GaP	567		5.0	7.0	8.0	13.3
PL12-CDY01-5V	PL12-WDY01-5V	Yellow	GaAsP on GaP	585		5.0	7.0	6.5	10.8
PL12-CDA02-5V	PL12-WDA02-5V	Amber	GaAsP on GaP	610		5.0	7.0	9.2	15.3
PL12-CDO12-5V	PL12-WDO12-5V	Orange	GaAsP on GaP	635		5.0	7.0	9.2	15.3
Color Transparent	Water Clear			(nm)	Deg	Typ	Max	Min	Typ
PL12-CTR24-5V	PL12-WCR24-5V	Bright Red	GaP	700	30°	5.0	7.0	10.5	17.5
PL12-CTR12-5V	PL12-WCR12-5V	Hi Eff Red	GaAsP on GaP	635		5.0	7.0	31.3	52.0
PL12-CTG13-5V	PL12-WCG13-5V	Green	GaP	567		5.0	7.0	27.2	45.2
PL12-CTY01-5V	PL12-WCY01-5V	Yellow	GaAsP on GaP	585		5.0	7.0	22.0	36.6
PL12-CTA02-5V	PL12-WCA02-5V	Amber	GaAsP on GaP	610		5.0	7.0	31.3	52.0
PL12-CTO12-5V	PL12-WCO12-5V	Orange	GaAsP on GaP	635		5.0	7.0	31.3	52.0

Package Dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified.
An Epoxy Meniscus may extend about 1 mm. down the leads.



PL12 Series 12 Volt 5mm (T1 3/4) LED

Features

- *Flanged
- *Available in Color, White Diffused (WD), Color Transparent (CT), and Water Clear
- *Standard and Low Current Available
- *Available with Integrated Current Limiting Resistor for 5V operation

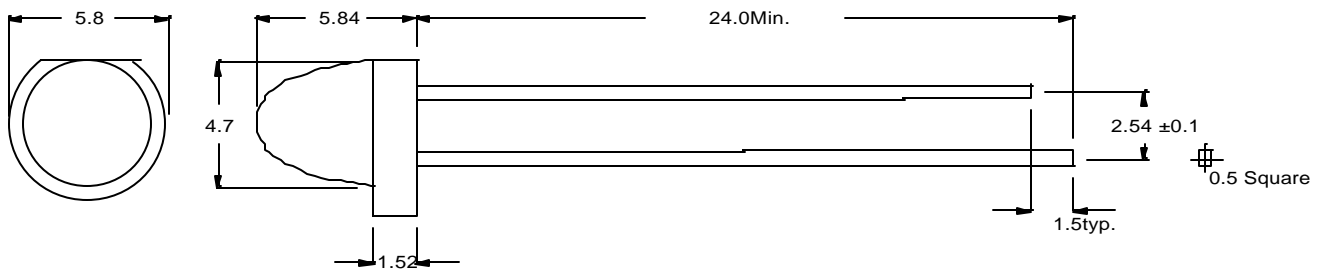
Absolute Maximum Ratings at T_A = 25 °C

Reverse Voltage (<100µA).....	5.0V
Max Forward Current.....	30mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width).....	100mA
Operating Temperature Range.....	-25°C to + 85°C
Storage Temperature Range.....	-25°C to +100°C
Soldering Temperature (1.6mm below body).....	260° for 5 seconds

Electrical & Optical Characteristics at T_A = 25 °C

Part Number		Emitting Color	Material	Peak Wave Length	View Angle 2θ ½	Forward Voltage @20mA (V)		Luminous Intensity @20mA (mcd)	
						Typ	Max	Min	Typ
Color Diffused	White Diffused			(nm)	Deg	Typ	Max	Min	Typ
PL12-CDR24-12V	PL12-WDR24-12V	Bright Red	GaP	700	36°	12.0	15.0	2.0	5.1
PL12-CDR12-12V	PL12-WDR12-12V	Hi Eff Red	GaAsP on GaP	635		12.0	15.0	9.2	15.3
PL12-CDG13-12V	PL12-WDG13-12V	Green	GaP	567		12.0	15.0	8.0	13.3
PL12-CDY01-12V	PL12-WDY01-12V	Yellow	GaAsP on GaP	585		12.0	15.0	6.5	10.8
PL12-CDA02-12V	PL12-WDA02-12V	Amber	GaAsP on GaP	610		12.0	15.0	9.2	15.3
PL12-CDO12-12V	PL12-WDO12-12V	Orange	GaAsP on GaP	635		12.0	15.0	9.2	15.3
Color Transparent	Water Clear			(nm)		Deg	Typ	Max	Min
PL12-CTR24-12V	PL12-WCR24-12V	Bright Red	GaP	700	30°	12.0	15.0	10.5	17.5
PL12-CTR12-12V	PL12-WCR12-12V	Hi Eff Red	GaAsP on GaP	635		12.0	15.0	31.3	52.0
PL12-CTG13-12V	PL12-WCG13-12V	Green	GaP	567		12.0	15.0	27.2	45.2
PL12-CTY01-12V	PL12-WCY01-12V	Yellow	GaAsP on GaP	585		12.0	15.0	22.0	36.6
PL12-CTA02-12V	PL12-WCA02-12V	Amber	GaAsP on GaP	610		12.0	15.0	31.3	52.0
PL12-CTO12-12V	PL12-WCO12-12V	Orange	GaAsP on GaP	635		12.0	15.0	31.3	52.0

Package Dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified.
An Epoxy Meniscus may extend about 1 mm. down the leads.



PL12 Series Low Current 5mm (T1 3/4) LED

Features

- *Flanged
- *Available in Color, White Diffused (WD), Color Transparent (CT), and Water Clear

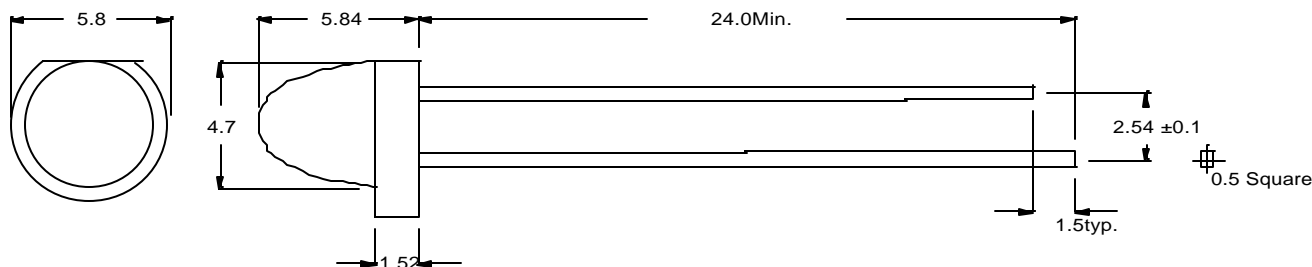
Absolute Maximum Ratings at T_A = 25 °C

Reverse Voltage (<100µA).....	5.0V
Max Forward Current.....	30mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width).....	100mA
Operating Temperature Range.....	-25°C to + 85°C
Storage Temperature Range.....	-25°C to +100°C
Soldering Temperature (1.6mm below body).....	260° for 5 seconds

Electrical & Optical Characteristics at T_A = 25 °C

Part Number		Emitting Color	Material	Peak Wave Length	View Angle 2θ ½	Forward Voltage @2mA (V)		Luminous Intensity @2mA (mcd)	
						Typ	Max	Min	Typ
Color Diffused	White Diffused			(nm)	Deg	Typ	Max	Min	Typ
PL12-CDR12-LC	PL12-WDR12-LC	Hi Eff Red	GaAsP on GaP	635	36°	1.8	2.2	1.0	1.7
PL12-CDG13-LC	PL12-WDG13-LC	Green	GaP	567		1.8	2.2	0.9	1.5
PL12-CDY01-LC	PL12-WDY01-LC	Yellow	GaAsP on GaP	585		1.8	2.2	0.7	1.2
PL12-CDO12-LC	PL12-WDO12-LC	Orange	GaAsP on GaP	635		1.8	2.2	1.0	1.7
Color Transparent	Water Clear			(nm)	Deg	Typ	Max	Min	Typ
PL12-CTR12-LC	PL12-WCR12-LC	Hi Eff Red	GaAsP on GaP	635	30°	1.8	2.2	3.5	5.8
PL12-CTG13-LC	PL12-WCG13-LC	Green	GaP	567		1.8	2.2	3.0	5.0
PL12-CTY01-LC	PL12-WCY01-LC	Yellow	GaAsP on GaP	585		1.8	2.2	2.5	4.1
PL12-CTO12-LC	PL12-WCO12-LC	Orange	GaAsP on GaP	635		1.8	2.2	3.5	5.9

Package Dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified.
An Epoxy Meniscus may extend about 1 mm. down the leads.



PL12 Series 5mm (T1 3/4) LED

Features

- *Flanged
- *Available in Color, White Diffused (WD), Color Transparent (CT), and Water Clear
- *Low Current Available
- *Available with Integrated Current Limiting Resistor for 5V and 12V operation

Absolute Maximum Ratings at T_A = 25 °C

Reverse Voltage (<100μA).....	5.0V
Max Forward Current.....	30mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width).....	100mA
Operating Temperature Range.....	-25°C to + 85°C
Storage Temperature Range.....	-25°C to +100°C
Soldering Temperature (1.6mm below body).....	260° for 5 seconds

Electrical & Optical Characteristics at T_A = 25 °C

Part Number		Emitting Color	Material	Peak Wave Length	View Angle 2θ ½	Forward Voltage @20mA (V)		Luminous Intensity @20mA (mcd)
						Typ	Max	
Color Diffused	White Diffused			(nm)	Deg	Typ	Max	Typ
PL12-CDR21	PL12-WDR21	Super Red	GaAlAs on GaAs	660	36°	2.1	3.0	156.0

Package Dimensions are in **Millimeters** . Tolerance is ± 0.25mm unless otherwise specified.
An Epoxy Meniscus may extend about 1 mm. down the leads.

