

PL25 Series 5mm (T1 3/4) LED

Features

- *Available in Color, White Diffused (WD), Color Transparent (CT), and Water Clear (WC)
- *Available in PL500, PL501, PL503, PL505, PL507, PL513, PL515, and PL518
- *Bi-Color and Low Current Available
- *Available with Current Limiting Resistor for 5V, 12V, and 24V operation

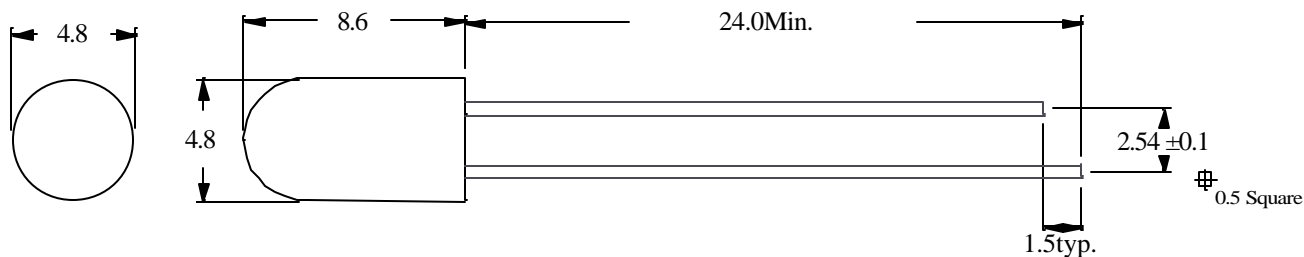
Absolute Maximum Ratings at T_A = 25 °C

Reverse Voltage (<100µA).....	5.0V
Max Forward Current.....	20mA
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
PL25-CDR24	PL25-WDR24	Bright Red	GaP	700	50°	2.1	3.0	2.5	4.1
PL25-CDR12	PL25-WDR12	Hi Eff Red	GaAsP on GaP	635		2.1	3.0	14.4	24.0
PL25-CDG13	PL25-WDG13	Green	GaP	567		2.1	3.0	12.4	20.7
PL25-CDY01	PL25-WDY01	Yellow	GaAsP on GaP	585		2.1	3.0	10.3	17.1
PL25-CDA02	PL25-WDA02	Amber	GaAsP on GaP	610		2.1	3.0	14.4	24.0
PL25-CDO12	PL25-WDO12	Orange	GaAsP on GaP	635		2.1	3.0	14.4	24.0
Color Transparent	Water Clear			(nm)	Deg	Typ	Max	Min	Typ
PL25-CTR24	PL25-WCR24	Bright Red	GaP	700	30°	2.1	3.0	8.4	14.0
PL25-CTR12	PL25-WCR12	Hi Eff Red	GaAsP on GaP	635		2.1	3.0	49.0	82.0
PL25-CTG13	PL25-WCG13	Green	GaP	567		2.1	3.0	42.0	70.0
PL25-CTY01	PL25-WCY01	Yellow	GaAsP on GaP	585		2.1	3.0	35.0	58.0
PL25-CTA02	PL25-WCA02	Amber	GaAsP on GaP	610		2.1	3.0	49.0	82.0
PL25-CTO12	PL25-WCO12	Orange	GaAsP on GaP	635		2.1	3.0	49.0	82.0

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



PL25 Series 5 Volt 5mm (T1 3/4) LED

Features

***Standard, Bi-Color, and Low Current Available**

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

*Available in PL500, PL501, PL503, PL505, PL507, PL513, PL515, and PL518

*Available with Integrated Current Limiting Resistor for 12V operation

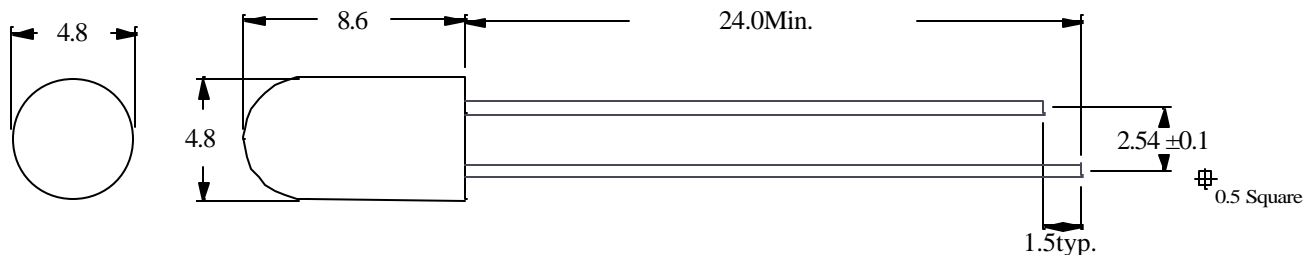
Absolute Maximum Ratings at T_A = 25 °C

Reverse Voltage (<100µA).....	5.0V
Max Forward Current.....	20mA
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
PL25-CDR24-5V	PL25-WDR24-5V	Bright Red	GaP	700	50°	5.0	7.0	2.5	4.1
PL25-CDR12-5V	PL25-WDR12-5V	Hi Eff Red	GaAsP on GaP	635		5.0	7.0	14.4	24.0
PL25-CDG13-5V	PL25-WDG13-5V	Green	GaP	567		5.0	7.0	12.4	20.7
PL25-CDY01-5V	PL25-WDY01-5V	Yellow	GaAsP on GaP	585		5.0	7.0	10.3	17.1
PL25-CDA02-5V	PL25-WDA02-5V	Amber	GaAsP on GaP	610		5.0	7.0	14.4	24.0
PL25-CDO12-5V	PL25-WDO12-5V	Orange	GaAsP on GaP	635		5.0	7.0	14.4	24.0
Color Transparent	Water Clear			(nm)		Deg	Typ	Max	Min
PL25-CTR24-5V	PL25-WCR24-5V	Bright Red	GaP	700	30°	5.0	7.0	8.4	14.0
PL25-CTR12-5V	PL25-WCR12-5V	Hi Eff Red	GaAsP on GaP	635		5.0	7.0	49.0	82.0
PL25-CTG13-5V	PL25-WCG13-5V	Green	GaP	567		5.0	7.0	42.0	70.0
PL25-CTY01-5V	PL25-WCY01-5V	Yellow	GaAsP on GaP	585		5.0	7.0	35.0	58.0
PL25-CTA02-5V	PL25-WCA02-5V	Amber	GaAsP on GaP	610		5.0	7.0	49.0	82.0
PL25-CTO12-5V	PL25-WCO12-5V	Orange	GaAsP on GaP	635		5.0	7.0	49.0	82.0

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



PL25 Series 12 Volt 5mm (T1 3/4) LED

Features

- *Available in Color, White Diffused (WD), Color Transparent (CT), and Water Clear (WC)
- *Available in PL500, PL501, PL503, PL505, PL507, PL513, PL515, and PL518
- *Standard and Low Current Available
- *Available with Current Limiting Resist or for 5V and 24V operation

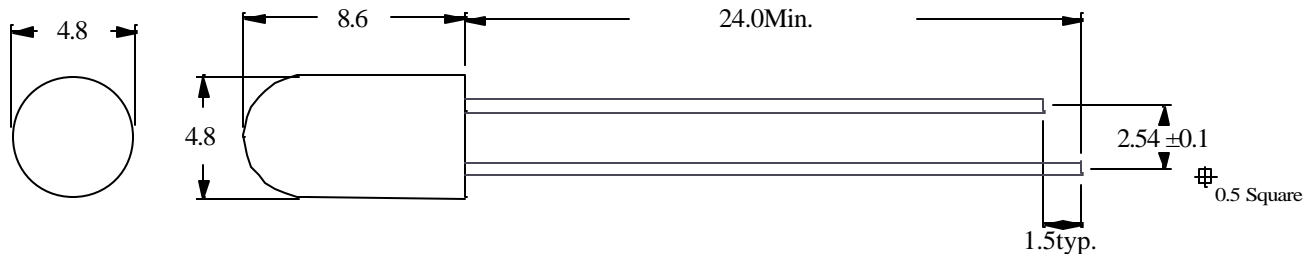
Absolute Maximum Ratings at T_A = 25 °C

Reverse Voltage (<100µA).....	5.0V
Max Forward Current.....	20mA
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
PL25-CDR24-12V	PL25-WDR24-12V	Bright Red	GaP	700	50°	12.0	15.0	2.5	4.1
PL25-CDR12-12V	PL25-WDR12-12V	Hi Eff Red	GaAsP on GaP	635		12.0	15.0	14.4	24.0
PL25-CDG13-12V	PL25-WDG13-12V	Green	GaP	567		12.0	15.0	12.4	20.7
PL25-CDY01-12V	PL25-WDY01-12V	Yellow	GaAsP on GaP	585		12.0	15.0	10.3	17.1
PL25-CDA02-12V	PL25-WDA02-12V	Amber	GaAsP on GaP	610		12.0	15.0	14.4	24.0
PL25-CDO12-12V	PL25-WDO12-12V	Orange	GaAsP on GaP	635		12.0	15.0	14.4	24.0
Color Transparent	Water Clear			(nm)		Deg	Typ	Max	Min
PL25-CTR24-12V	PL25-WCR24-12V	Bright Red	GaP	700	30°	12.0	15.0	8.4	14.0
PL25-CTR12-12V	PL25-WCR12-12V	Hi Eff Red	GaAsP on GaP	635		12.0	15.0	49.0	82.0
PL25-CTG13-12V	PL25-WCG13-12V	Green	GaP	567		12.0	15.0	42.0	70.0
PL25-CTY01-12V	PL25-WCY01-12V	Yellow	GaAsP on GaP	585		12.0	15.0	35.0	58.0
PL25-CTA02-12V	PL25-WCA02-12V	Amber	GaAsP on GaP	610		12.0	15.0	49.0	82.0
PL25-CTO12-12V	PL25-WCO12-12V	Orange	GaAsP on GaP	635		12.0	15.0	49.0	82.0

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



PL25 Series Low Current 5mm (T1 3/4) LED

Features *Available in Color, White Diffused (WD), Color Transparent (CT), and Water Clear (WC) *Available in PL500, PL501, PL503, PL505, PL507, PL513, PL515, and PL518 *Available with Current Limiting Resistor for 5v, 12, and 24V operation	Absolute Maximum Ratings at T_A = 25 °C	
	Reverse Voltage (<100µA).....	5.0V
	Max Forward Current.....	20mA
	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
PL25-CDR12-LC	PL25-WDR12-LC	Hi Eff Red	GaAsP on GaP	635	50°	1.8	2.2	1.6	2.7
PL25-CDG13-LC	PL25-WDG13-LC	Green	GaP	567		1.8	2.2	1.4	2.3
PL25-CDY01-LC	PL25-WDY01-LC	Yellow	GaAsP on GaP	585		1.8	2.2	1.1	1.9
PL25-CDO12-LC	PL25-WDO12-LC	Orange	GaAsP on GaP	635		1.8	2.2	1.6	2.7
Color Transparent	Water Clear			(nm)	Deg	Typ	Max	Min	Typ
PL25-CTR12-LC	PL25-WCR12-LC	Hi Eff Red	GaAsP on GaP	635	30°	1.8	2.2	5.5	9.1
PL25-CTG13-LC	PL25-WCG13-LC	Green	GaP	567		1.8	2.2	4.7	7.8
PL25-CTY01-LC	PL25-WCY01-LC	Yellow	GaAsP on GaP	585		1.8	2.2	3.9	6.4
PL25-CTO12-LC	PL25-WCO12-LC	Orange	GaAsP on GaP	635		1.8	2.2	5.5	9.1

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

