

PL20 Series 5mm (T1 3/4) LED

Features

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

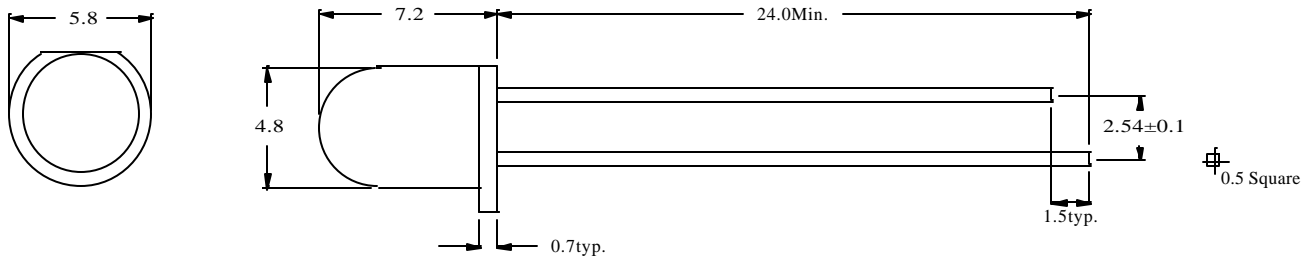
Absolute Maximum Ratings at T_A = 25 °C

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
PL20-CDR24	PL20-WDR24	Bright Red	GaP	700	46°	2.1	3.0	1.6	2.7
PL20-CDR12	PL20-WDR12	Hi Eff Red	GaAsP on GaP	635		2.1	3.0	9.3	15.5
PL20-CDG13	PL20-WDG13	Green	GaP	567		2.1	3.0	8.0	13.3
PL20-CDY01	PL20-WDY01	Yellow	GaAsP on GaP	585		2.1	3.0	6.6	11.0
PL20-CDA02	PL20-WDA02	Amber	GaAsP on GaP	610		2.1	3.0	9.3	15.5
PL20-CDO12	PL20-WDO12	Orange	GaAsP on GaP	635		2.1	3.0	9.3	15.5
Color Transparent	Water Clear			(nm)		Deg	Typ	Max	Min
PL20-CTR12	PL20-WCR24	Bright Red	GaP	700	36°	2.1	3.0	5.5	9.2
PL20-CTR12	PL20-WCR12	Hi Eff Red	GaAsP on GaP	635		2.1	3.0	31.9	52.9
PL20-CTG13	PL20-WCG13	Green	GaP	567		2.1	3.0	27.2	45.2
PL20-CTY01	PL20-WCY01	Yellow	GaAsP on GaP	585		2.1	3.0	22.6	37.6
PL20-CTA02	PL20-WCA02	Amber	GaAsP on GaP	610		2.1	3.0	31.9	52.9
PL20-CTO12	PL20-WCO12	Orange	GaAsP on GaP	635		2.1	3.0	31.9	52.9

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



PL20 Series 5 Volt 5mm (T1 3/4) LED

Features

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

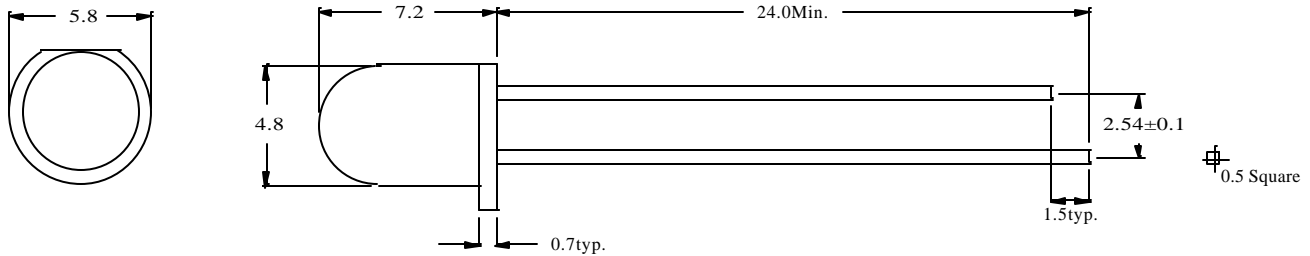
Absolute Maximum Ratings at T_A = 25 °C

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
PL20-CDR24-5V	PL20-WDR24-5V	Bright Red	GaP	700	46°	5.0	7.0	1.6	2.7
PL20-CDR12-5V	PL20-WDR12-5V	Hi Eff Red	GaAsP on GaP	635		5.0	7.0	9.3	15.5
PL20-CDG13-5V	PL20-WDG13-5V	Green	GaP	567		5.0	7.0	8.0	13.3
PL20-CDY01-5V	PL20-WDY01-5V	Yellow	GaAsP on GaP	585		5.0	7.0	6.6	11.0
PL20-CDA02-5V	PL20-WDA02-5V	Amber	GaAsP on GaP	610		5.0	7.0	9.3	15.5
PL20-CDO12-5V	PL20-WDO12-5V	Orange	GaAsP on GaP	635		5.0	7.0	9.3	15.5
Color Transparent	Water Clear			(nm)	Deg	Typ	Max	Min	Typ
PL20-CTR12-5V	PL20-WCR24-5V	Bright Red	GaP	700	36°	5.0	7.0	5.5	9.2
PL20-CTR12-5V	PL20-WCR12-5V	Hi Eff Red	GaAsP on GaP	635		5.0	7.0	31.9	52.9
PL20-CTG13-5V	PL20-WCG13-5V	Green	GaP	567		5.0	7.0	27.2	45.2
PL20-CTY01-5V	PL20-WCY01-5V	Yellow	GaAsP on GaP	585		5.0	7.0	22.6	37.6
PL20-CTA02-5V	PL20-WCA02-5V	Amber	GaAsP on GaP	610		5.0	7.0	31.9	52.9
PL20-CTO12-5V	PL20-WCO12-5V	Orange	GaAsP on GaP	635		5.0	7.0	31.9	52.9

An Epoxy Meniscus may extend about 1 mm. down the leads.



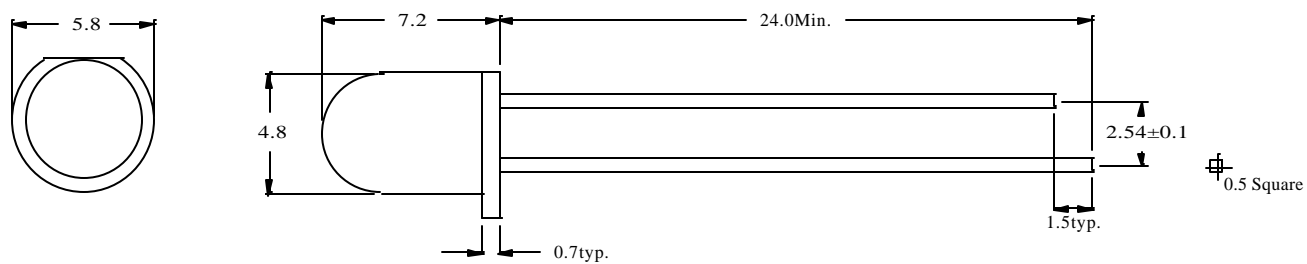
PL20 Series 12 Volt 5mm (T1 3/4) LED

Features *Flanged *Available in Color, White Diffused (WD), Color Transparent (CT), and Water Clear (WC) *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.....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
PL20-CDR24-12V	PL20-WDR24-12V	Bright Red	GaP	700	46°	12.0	15.0	1.6	2.7
PL20-CDR12-12V	PL20-WDR12-12V	Hi Eff Red	GaAsP on GaP	635		12.0	15.0	9.3	15.5
PL20-CDG13-12V	PL20-WDG13-12V	Green	GaP	567		12.0	15.0	8.0	13.3
PL20-CDY01-12V	PL20-WDY01-12V	Yellow	GaAsP on GaP	585		12.0	15.0	6.6	11.0
PL20-CDA02-12V	PL20-WDA02-12V	Amber	GaAsP on GaP	610		12.0	15.0	9.3	15.5
PL20-CDO12-12V	PL20-WDO12-12V	Orange	GaAsP on GaP	635		12.0	15.0	9.3	15.5
Color Transparent	Water Clear			(nm)		Deg	Typ	Max	Min
PL20-CTR12-12V	PL20-WCR24-12V	Bright Red	GaP	700	36°	12.0	15.0	5.5	9.2
PL20-CTR12-12V	PL20-WCR12-12V	Hi Eff Red	GaAsP on GaP	635		12.0	15.0	31.9	52.9
PL20-CTG13-12V	PL20-WCG13-12V	Green	GaP	567		12.0	15.0	27.2	45.2
PL20-CTY01-12V	PL20-WCY01-12V	Yellow	GaAsP on GaP	585		12.0	15.0	22.6	37.6
PL20-CTA02-12V	PL20-WCA02-12V	Amber	GaAsP on GaP	610		12.0	15.0	31.9	52.9
PL20-CTO12-12V	PL20-WCO12-12V	Orange	GaAsP on GaP	635		12.0	15.0	31.9	52.9

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



PL20 Series Low Current 5mm (T1 3/4) LED

Features

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

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
PL20-CDR12-LC	PL20-WDR12-LC	Hi Eff Red	GaAsP on GaP	635	46°	1.8	2.2	1.0	1.7
PL20-CDG13-LC	PL20-WDG13-LC	Green	GaP	567		1.8	2.2	0.9	1.5
PL20-CDY01-LC	PL20-WDY01-LC	Yellow	GaAsP on GaP	585		1.8	2.2	0.7	1.2
PL20-CDO12-LC	PL20-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
PL20-CTR12-LC	PL20-WCR12-LC	Hi Eff Red	GaAsP on GaP	635	36°	1.8	2.2	3.6	5.9
PL20-CTG13-LC	PL20-WCG13-LC	Green	GaP	567		1.8	2.2	3.0	1.5
PL20-CTY01-LC	PL20-WCY01-LC	Yellow	GaAsP on GaP	585		1.8	2.2	2.5	1.2
PL20-CTO12-LC	PL20-WCO12-LC	Orange	GaAsP on GaP	635		1.8	2.2	3.6	1.7

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

