



PL01 Series 12 Volt 3mm (T1) LED

Features

- * Available in Color (CD), White Diffused (WD), Color Transparent (CT), and Water Clear (WC)
- * Available in PL318 Holder
- * Available with Current Limiting Resistor for 5V and 24V Operation
- * Low current (LC) and Bi-color (BC) available

Absolute Maximum Ratings at T_A = 25°C

Reverse Voltage (<100µA).....	5V
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°C 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 Lens		White Diffused Lens		(nm)	Deg.	Typ	Max	Min	Typ
PL01-CDR24-12V	PL01-WDR24-12V	Bright Red	GaP	700	70°	12.0	15.0	1.6	2.7
PL01-CDR12-12V	PL01-WDR12-12V	Hi-Eff Red	GaAsP on GaP	635		12.0	15.0	9.3	15.5
PL01-CDG13-12V	PL01-WDG13-12V	Green	GaP	567		12.0	15.0	8.0	13.3
PL01-CDY01-12V	PL01-WDY01-12V	Yellow	GaAsP on GaP	585		12.0	15.0	8.6	11.0
PL01-CDA02-12V	PL01-WDA02-12V	Amber	GaAsP on GaP	610		12.0	15.0	9.3	15.5
PL01-CDO12-12V	PL01-WDO12-12V	Orange	GaAsP on GaP	635		12.0	15.0	9.3	15.5
Color Transparent Lens		Water Clear Lens		(nm)	Deg.	Typ	Max	Min	Typ
PL01-CTR24-12V	PL01-WCR24-12V	Bright Red	GaP	700	48°	12.0	15.0	5.5	9.2
PL01-CTR12-12V	PL01-WCR12-12V	Hi-Eff Red	GaAsP on GaP	635		12.0	15.0	31.7	52.9
PL01-CTG13-12V	PL01-WCG13-12V	Green	GaP	567		12.0	15.0	27.0	45.0
PL01-CTY01-12V	PL01-WCY01-12V	Yellow	GaAsP on GaP	585		12.0	15.0	22.6	37.6
PL01-CTA02-12V	PL01-WCA02-12V	Amber	GaAsP on GaP	610		12.0	15.0	31.7	52.9
PL01-CTO12-12V	PL01-WCO12-12V	Orange	GaAsP on GaP	635		12.0	15.0	31.7	52.9

All dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified. An epoxy meniscus may extend about 1mm down the leads.

