

PL16 Series 5MM (T1¾) LED

Features

- *Other Color available
- *Low Current available
- *High Light Output
- *Flanged
- *Available in Color Diffused (CD), White Diffused (WD), Color Transparent (CT), and Water Clear (WC)
- *Available in Several Holders PL512, PL517, PL522, PL523, PL524, PS520, PS521, PS525
- *IC Compatible

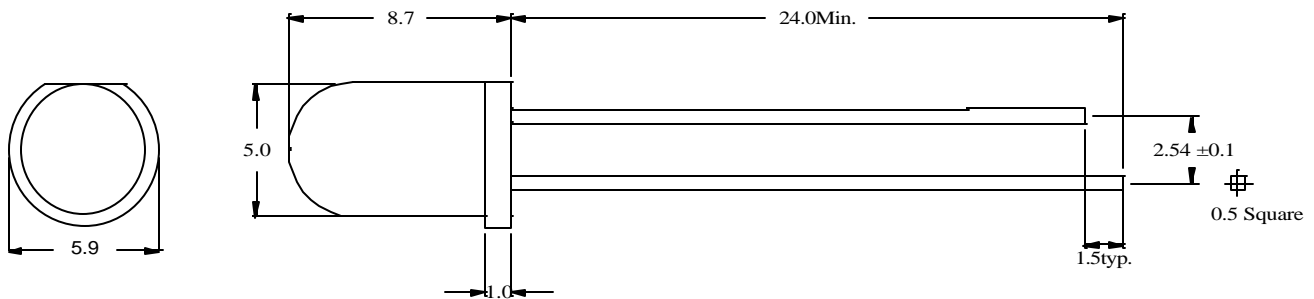
Absolute Maximum Ratings at T_A = 25 °C

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
PL16-CDR24	PL16-WDR24	Bright Red	GaP	700	44°	2.1	3.0	2.5	4.1
PL16-CDR12	PL16-WDR12	Hi-Eff Red	GaAsP on GaP	635		2.1	3.0	13.9	23.2
PL16-CDG13	PL16-WDG13	Green	GaP	567		2.1	3.0	12.0	20.0
PL16-CDG14	PL16-WDG14	Hi-Eff Green	GaP	567		2.1	3.0	15.7	26.1
PL16-CDY01	PL16-WDY01	Yellow	GaAsP on GaP	585		2.1	3.0	9.8	16.4
PL16-CDA02	PL16-WDA02	Amber	GaAsP on GaP	610		2.1	3.0	13.9	23.2
PL16-CDO12	PL16-WDO12	Orange	GaAsP on GaP	635		2.1	3.0	13.9	23.2
Color Transparent	Water Clear			(nm)		Deg	Typ	Max	Min
PL16-CTR24	PL16-WCR24	Bright Red	GaP	700	22°	2.1	3.0	8.2	13.7
PL16-CTR12	PL16-WCR12	Hi-Eff Red	GaAsP on GaP	635		2.1	3.0	47.3	78.8
PL16-CTG13	PL16-WCG13	Green	GaP	567		2.1	3.0	40.9	68.2
PL16-CTG14	PL16-WCG14	Hi-Eff Green	GaP	567		2.1	3.0	53.2	88.7
PL16-CTY01	PL16-WCY01	Yellow	GaAsP on GaP	585		2.1	3.0	33.5	55.8
PL16-CTA02	PL16-WCA02	Amber	GaAsP on GaP	610		2.1	3.0	47.3	78.8
PL16-CTO12	PL16-WCO12	Orange	GaAsP on GaP	635		2.1	3.0	47.3	78.8

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



PL16 Series 5 Volt 5mm (T1³/₄) LED

Features

- *Other Color available
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- *High Light Output
- *Flanged
- *Available in Color Diffused (CD), White Diffused (WD), Color Transparent (CT), and Water Clear (WC)
- *Available in Several Holders
PL512, PL517, PL522, PL523, PL524, PS520, PS521, PS525

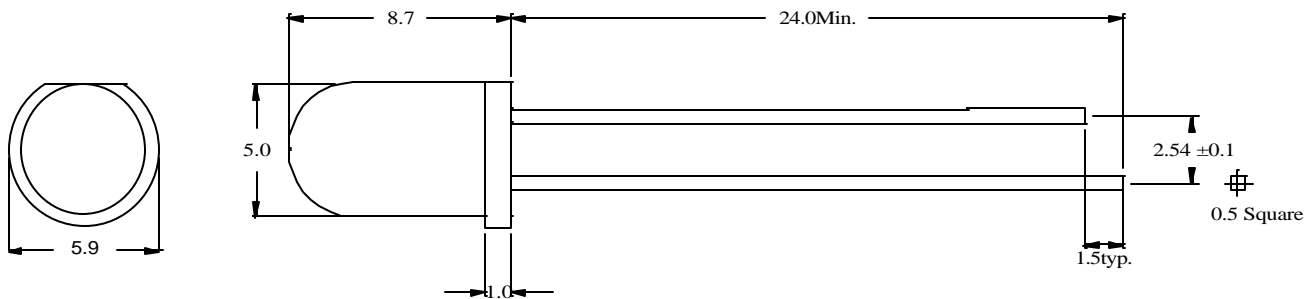
Absolute Maximum Ratings at T_A = 25 °C

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
PL16-CDR24-5V	PL16-WDR24-5V	Bright Red	GaP	700	44°	5.0	7.0	2.5	4.1
PL16-CDR12-5V	PL16-WDR12-5V	Hi-Eff Red	GaAsP on GaP	635		5.0	7.0	13.9	23.2
PL16-CDG13-5V	PL16-WDG13-5V	Green	GaP	567		5.0	7.0	12.0	20.0
PL16-CDG14-5V	PL16-WDG14-5V	Hi-Eff Green	GaP	567		5.0	7.0	15.7	26.1
PL16-CDY01-5V	PL16-WDY01-5V	Yellow	GaAsP on GaP	585		5.0	7.0	9.8	16.4
PL16-CDA02-5V	PL16-WDA02-5V	Amber	GaAsP on GaP	610		5.0	7.0	13.9	23.2
PL16-CDO12-5V	PL16-WDO12-5V	Orange	GaAsP on GaP	635		5.0	7.0	13.9	23.2
Color Transparent	Water Clear			(nm)	Deg	Typ	Max	Min	Typ
PL16-CTR24-5V	PL16-WCR24-5V	Bright Red	GaP	700	22°	5.0	7.0	8.2	13.7
PL16-CTR12-5V	PL16-WCR12-5V	Hi-Eff Red	GaAsP on GaP	635		5.0	7.0	47.3	78.8
PL16-CTG13-5V	PL16-WCG13-5V	Green	GaP	567		5.0	7.0	40.9	68.2
PL16-CTG14-5V	PL16-WCG14-5V	Hi-Eff Green	GaP	567		5.0	7.0	53.2	88.7
PL16-CTY01-5V	PL16-WCY01-5V	Yellow	GaAsP on GaP	585		5.0	7.0	33.5	55.8
PL16-CTA02-5V	PL16-WCA02-5V	Amber	GaAsP on GaP	610		5.0	7.0	47.3	78.8
PL16-CTO12-5V	PL16-WCO12-5V	Orange	GaAsP on GaP	635		5.0	7.0	47.3	78.8

Package Dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified.
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PL16 Series 12 Volt 5mm (T1¾) LED

Features

- *Other Color available
- *Low Current available
- *High Light Output
- *Flanged
- *Available in Color Diffused (CD), White Diffused (WD), Color Transparent (CT), and Water Clear (WC)
- *Available in Several Holders
PL512, PL517, PL522, PL523, PL524, PS520, PS521, PS525

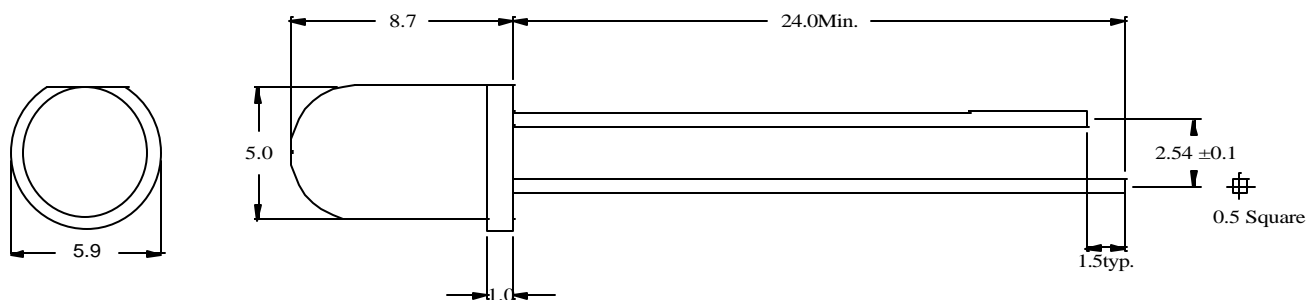
Absolute Maximum Ratings at T_A = 25 °C

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
PL16-CDR24-12V	PL16-WDR24-12V	Bright Red	GaP	700	44°	12.0	15.0	2.5	4.1
PL16-CDR12-12V	PL16-WDR12-12V	Hi-Eff Red	GaAsP on GaP	635		12.0	15.0	13.9	23.2
PL16-CDG13-12V	PL16-WDG13-12V	Green	GaP	567		12.0	15.0	12.0	20.0
PL16-CDG14-12V	PL16-WDG14-12V	Hi-Eff Green	GaP	567		12.0	15.0	15.7	26.1
PL16-CDY01-12V	PL16-WDY01-12V	Yellow	GaAsP on GaP	585		12.0	15.0	9.8	16.4
PL16-CDA02-12V	PL16-WDA02-12V	Amber	GaAsP on GaP	610		12.0	15.0	13.9	23.2
PL16-CDO12-12V	PL16-WDO12-12V	Orange	GaAsP on GaP	635		12.0	15.0	13.9	23.2
Color Transparent	Water Clear			(nm)		Deg	Typ	Max	Min
PL16-CTR24-12V	PL16-WCR24-12V	Bright Red	GaP	700	22°	12.0	15.0	8.2	13.7
PL16-CTR12-12V	PL16-WCR12-12V	Hi-Eff Red	GaAsP on GaP	635		12.0	15.0	47.3	78.8
PL16-CTG13-12V	PL16-WCG13-12V	Green	GaP	567		12.0	15.0	40.9	68.2
PL16-CTG14-12V	PL16-WCG14-12V	Hi-Eff Green	GaP	567		12.0	15.0	53.2	88.7
PL16-CTY01-12V	PL16-WCY01-12V	Yellow	GaAsP on GaP	585		12.0	15.0	33.5	55.8
PL16-CTA02-12V	PL16-WCA02-12V	Amber	GaAsP on GaP	610		12.0	15.0	47.3	78.8
PL16-CTO12-12V	PL16-WCO12-12V	Orange	GaAsP on GaP	635		12.0	15.0	47.3	78.8

Package Dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified.
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PL16 Series Low Current 5MM (T1³/₄) LED

Features

- *Other Color available
- *High Light Output
- *Flanged
- *Available in Color Diffused (CD), White Diffused (WD), Color Transparent (CT), and Water Clear (WC)
- *Available in Several Holders PL512, PL517, PL522, PL523, PL524, PS520, PS521, PS525
- *IC Compatible

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
PL16-CDR12-LC	PL16-WDR12-LC	Hi-Eff Red	GaAsP on GaP	635	44°	1.8	2.2	1.6	2.6
PL16-CDG13-LC	PL16-WDG13-LC	Green	GaP	567		1.8	2.2	1.3	2.2
PL16-CDY01-LC	PL16-WDY01-LC	Yellow	GaAsP on GaP	585		1.8	2.2	1.1	1.8
PL16-CDO12-LC	PL16-WDO12-LC	Orange	GaAsP on GaP	635		1.8	2.2	1.6	2.6
Color Transparent	Water Clear			(nm)	Deg	Typ	Max	Min	Typ
PL16-CTR12-LC	PL16-WCR12-LC	Hi-Eff Red	GaAsP on GaP	635	22°	1.8	2.2	5.3	8.8
PL16-CTG13-LC	PL16-WCG13-LC	Green	GaP	567		1.8	2.2	4.6	7.6
PL16-CTY01-LC	PL16-WCY01-LC	Yellow	GaAsP on GaP	585		1.8	2.2	3.7	6.2
PL16-CTO12-LC	PL16-WCO12-LC	Orange	GaAsP on GaP	635		1.8	2.2	5.3	8.8

Package Dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified.
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