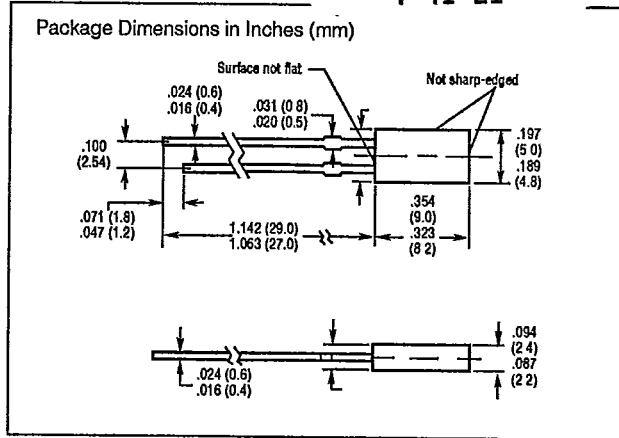
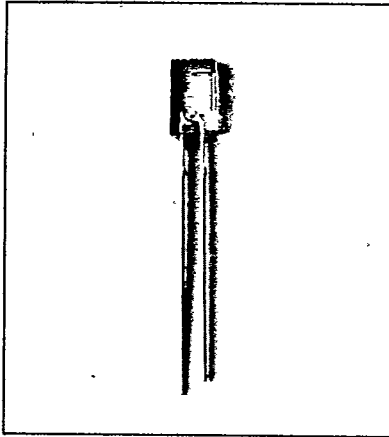


T-41-21



FEATURES

- Red Diffused Lens, LDR 370X
Red Diffused Lens, LDH 360X
Yellow Diffused Lens, LDY 380X
Green Diffused Lens, LDG 390X
- T1 1/4 Size Rectangular Shape
- Minimum Lead Length 1"
- 1/10" Lead Spacing
- I/C Compatible

DESCRIPTION

The LDR 370X is a standard red GaAsP LED lamp. The LDH 360X high efficiency red and LDY 380X yellow are light emitting diode lamps fabricated with TSN (transparent substrate nitrogen) technology. The LDG 390X green is a gallium phosphide LED lamp. All these lamps have a diffused lens which forms an evenly dispersed rectangular head-on light. They can be used singly as indicators or stacked together to form arrays.

See graph numbers on pages 4-27-4-34.
Red: 1D, 2B, 3D, 5B, 6C, 7B, 8B, 9B, 10B
HER: 1A, 2B, 3A, 5A, 6A, 7A, 8A, 9A, 10A
Yellow: 1A, 2B, 3E, 5A, 6A, 7A, 8A, 9A, 10A
Green: 1A, 2B, 3A, 5A, 6D, 7C, 8A, 9A, 10A

Maximum Ratings

Reverse voltage	V_R	5	V
Forward current	I_F	60	mA
Surge current ($t < 10$ s)	I_{FS}	1	A
Storage temperature	T_s	-55 to +100	°C
Junction temperature	T_j	100	°C
Power dissipation ($T_{amb} = 25^\circ\text{C}$)	P_{tot}	200	mW
Thermal resistance junction to air	R_{thJamb}	375	K/W

Characteristics $T_{amb} = 25^\circ\text{C}$

		LDR 370X	LDH 360X	LDY 380X	LDG 390X	
Wave length of emitted light	λ_{peak}	665 ± 15	645 ± 15	590 ± 10	560 ± 15	nm
Dominant wave length	λ_{dcm}	645	638	592	561	nm
Viewing Angle	ϕ	100	100	100	100	Deg.
(Limits for 50% of luminous intensity I_v shielded against lateral emission of light)						
Forward voltage ($I_F = 20$ mA)	V_F	1.6 (≤2.0)		2.4 (≤3.0)		V
Reverse current ($V_R = 5$ V)	I_R	0.01 (≤10)		0.01 (≤10)		μA
Rise time	t_r	5	5	100	50	ns
Fall time	t_f	5	5	100	50	ns
Capacitance ($V_R = 0$ V)	C_o	40	40	10	45	pF

Luminous Intensity

P/N	Min.	Unit	Test Condition
LDR 3701	.4	mcd	20 mA
LDR 3702	63	mcd	20 mA
LDH 3601	1.6	mcd	20 mA
LDH 3602	2.5	mcd	20 mA
LDH 3603	4.0	mcd	20 mA
LDY 3801	1.0	mcd	20 mA
LDY 3802	1.6	mcd	20 mA
LDY 3803	2.5	mcd	20 mA
LDG 3901	1.0	mcd	20 mA
LDG 3902	1.6	mcd	20 mA
LDG 3903	2.5	mcd	20 mA