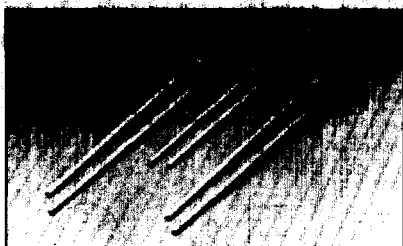


SIEMENS



FEATURES

- Colorless, clear package and lens
- Antiparallel chip
- High signal efficiency by changing LED color
- With custom built reflector suitable for backlighting display panels
- For optical coupling into light pipes
- Uniform illumination of diffuser screen in front of custom built reflector
- Both colors can be controlled separately
- Solder leads with stand-off
- Available taped on reel
- Load dump resistant per DIN 40839

Maximum Ratings refer to the specified chip regardless of the other one's operating status.

Operating/Storage Temperature

Range (T_{OP} , T_{STG}) -55°C to +100°C

Junction Temperature (T_J) 100°C

Forward Current (I_F)

LS, LO, LG 40 mA

LP 30 mA

Surge Current (I_{FM}) $t \leq 10 \mu s$ 0.5 A

Power Dissipation (P_{TOT}) $T_A \leq 25^\circ C$

LS, LO, LG 140 mW

LP 100 mW

Thermal Resistance,

Junction/Air (R_{THJA}) 400 K/W

DESCRIPTION

ARGUS LED lamp chips are arranged in antiparallel.

ARGUS lamps are used with an additional custom built reflector (i.e., white plastic, such as Pocaan B7375). The front end of the reflector is covered by a diffuser (see package dimensions). Uniform illuminations can be enhanced by the reflector design tailored to the LED and/or by using appropriate diffuser material.

Note:

Siemens does not supply the reflector or diffuser.

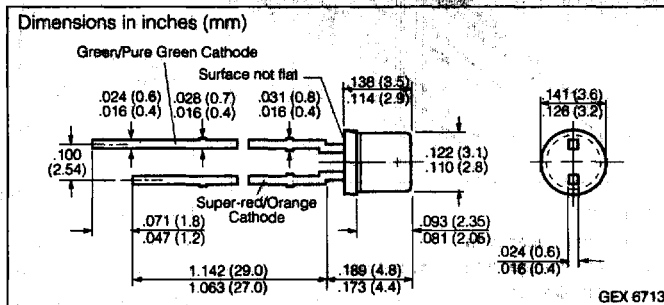
SUPER-RED/GREEN LSG K370

SUPER-RED/PURE GREEN LSP K370

ORANGE/PURE GREEN LOP K370

ORANGE/GREEN LOG K370

T1 (3 mm) Multi ARGUS® LED Lamp



Characteristics $T_A = 25^\circ C$, all values typical unless otherwise noted

Parameter	Sym.	Super-Red	Orange	Green	Pure Green	Unit	Condition
Peak Wavelength	λ_{PEAK}	635	610	565	557	nm	$I_F = 20 \text{ mA}$
Dominant Wavelength	λ_{DOM}	628	605	570	560		
Spectral Bandwidth, 50% I_V	$\Delta\lambda$	45	40	25	22		
Forward Voltage	V_F	2.0 (≤ 2.6)				V	$I_F = 10 \text{ mA}$
Capacitance	C_0	12	8	8	15	pF	$V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$
Switching Time						ns	$I_F = 100 \text{ mA}$, $t_P = 10 \mu s$, $R_L = 50 \Omega$
Rise Time, 10% to 90%	t_R	300	300	450	450		
Fall Time, 90% to 10%	t_F	150	150	200	200		

Luminous Flux (Φ_v , Φ_v , mlm)

Part No.	Min-Max	Part No.	Min-Max	Condition
LSG, LOG K370-LP	10-80	LSP, LOP K370-KN	6.3-50	$I_F = 15 \text{ mA}$
LSG, LOG K370-N	25-50	LSP, LOP K370-M	16-32	
LSG, LOG K370-P	40-80	LSP, LOP K370-N	25-50	
LSG, LOG, K370-NR	25-200	LSP, LOP K370-MQ	16-125	
		LSP K370-P	40-80	

Notes:

1. Luminous flux ratio in one packaging unit $\Phi_{Vmax}/\Phi_{Vmin} \leq 2$.
Luminous flux ratio in one LED unit $\Phi_{Vmax}/\Phi_{Vmin} \leq 4$. (LSP...)
Luminous flux ratio in one LED unit $\Phi_{Vmax}/\Phi_{Vmin} \leq 3$. (LSG...)
2. The brightness of the darker chip in one package determines the brightness group of the LED.

See graph numbers OHL01698, OHL01685, OHL02145, OHL02253, OHL01162, OHL01686, OHL01170, OHL02104, OHL02105, OHL02149, OHL02107 beginning on page 4-92.