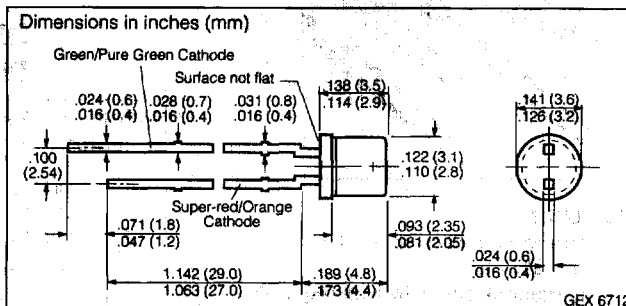
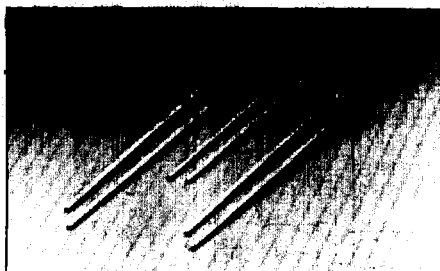


SIEMENS

SUPER-RED/GREEN LSG K372-QO SUPER-RED/PURE GREEN LSP K372-PO High Current T1 (3 mm) Super ARGUS MULTILED Lamp



FEATURES

- Colorless, clear lens
- Plastic package with a special design
- Anti-parallel chip
- Appropriate for high ambient light because of high operating current (typ. 50 mA)
- High signal efficiency possible by changing LED color
- Suitable for backlighting of display panels with custom built reflector
- For optical coupling into light pipes
- Uniform illumination of a diffuser screen in front of a custom built reflector
- Solder leads with stand-off
- Available taped on reel
- Load dump resistant per DIN 40839

DESCRIPTION

Super ARGUS LED lamp chip are arranged anti-parallel. Super ARGUS LEDs are designed to operate at 50 mA and provide as much as 10X luminous flux as standard ARGUS LEDs.

ARGUS lamps are used with an additional custom built reflector (i.e., white plastic, such as Pocan 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.

Maximum Ratings

Refer to the specified chip regardless of the other one's status.

Operating/Storage Temperature Range (T _{OP} T _{STG})	-55°C to +100°C
Junction Temperature (T _J)	100°C
Forward Current (I _F)	75 mA
Surge Current (I _{FM}) t ≤ 10 μs, D=0.005	1 A
Power Dissipation (P _{TOT}) T _A ≤ 25°C	240 mW
Thermal Resistance, Junction to Air (R _{THJA})	250 K/W

Note 1. Mounted on PC board up to stand off pad size ≥ 16 mm²

Characteristics T_A = 25°C, all values typical unless otherwise noted

Parameter	Sym.	LS	LG	LP	Unit	Condition
Peak Wavelength	λ _{PEAK}	635	565	557	nm	I _F = 20 mA
Dominant Wavelength	λ _{DOM}	628	570	560		
Spectral Bandwidth 50% I _V	Δλ	45	25	22		
Forward Voltage	V _F	2.0 (≤3.8)	2.6 (≤3.8)		V	I _F = 50 mA
Capacitance	C ₀	55		80	pF	V _R = 0 V, f = 1 MHz
Switching Times, I _V	t _R	300	450		ns	I _F = 100 mA, t _p = 10 μs, R _L = 50 Ω
	t _F	150	200			
Part Number		Luminous Flux, Φ_V, mlm			Condition	
LSG K372-QO		160 (≥100)			I _F = 50 mA	
LSP K372-PO		100 (≥40)				

Notes:

1. Total capacitance results from the sum of the capacitances.
2. Luminous flux ratio in one packaging unit Φ_{VMAX} / Φ_{VMIN} ≤ 2⁽⁴⁾.
3. Luminous flux ratio of one LED Φ_{VMAX} / Φ_{VMIN} ≤ 3.0 (LSG K372), ≤ 4.0 (LSP K372).
4. In MULTILEDs, the brightness of the darker chip in one package determines the brightness group of the LED.

See graph numbers OHL01698, OHL01712, OHL01626, OHL01628, OHL01710, OHL02068, OHL02104, OHL02105, OHL01696, OHL01700 beginning on page 4-92.