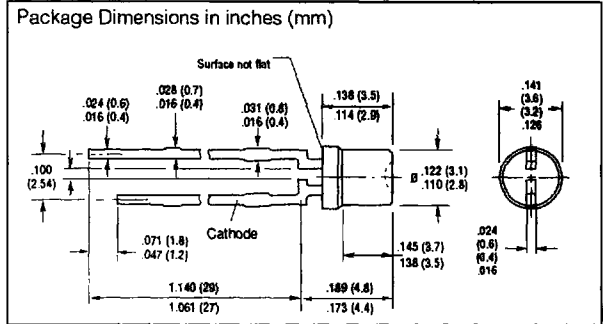


SIEMENS

SUPER-RED LS K382-RO
YELLOW LY K382-RO
GREEN LG K382-RO
ORANGE LO K382-RO
PURE GREEN LP K382-PO

T1 (3mm) Super ARGUS LED Lamp



FEATURES

- **Colors: Super-Red, Yellow, Green, Orange, Pure Green**
- **Lens: Tinted Transparent**
- **High Luminous Flux**
- **Rugged Design**
- **Cathode: Shorter Lead**
- **Applications—Backlighting Display Panels**
 - Front Panels
 - Graphic Control and Display Boards
 - Sealed Keyboards

DESCRIPTION

The LS/LY/LG/LO/LPK382 are T1 (3 mm) Super ARGUS LED lamps. 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 illustration). Uniform illumination can be enhanced by the reflector design tailored to the LED and/or by the use of appropriate diffuser material.

Super ARGUS LEDs are designed to operate at 50 mA and provide as much as 10X luminous flux as standard ARGUS LEDs.

Note: Siemens does not supply the reflector or diffuser.

Maximum Ratings

Operating Temperature Range (T_A)	-55°C to + 100°C
Storage Temperature Range (T_{STG})	-55°C to + 100°C
Junction Temperature (T_J)	+ 100°C
Reverse Voltage (V_R)	5 V
Forward Current (I_F)	75 mA
Surge Current (I_{FM})	1 A
Total Power Dissipation (P_{TOT}) $T_A=25^\circ\text{C}$	300 mW
Thermal Resistance Junction to Air (R_{THJA})	250 K/W

Note: Mounted on PC board up to stand-off; pad size $\leq 16 \text{ mm}^2$.

Characteristics ($T_A=25^\circ\text{C}$)

Parameter	Symbol	Super-				Pure	Unit
		Red	Yellow	Green	Orange	Green	
Peak Wavelength ($I_F=20 \text{ mA}$)	λ_{PEAK}	635	586	565	610	557	nm
Dominant Wavelength	λ_{DOM}	628	590	570	605	560	nm
Spectral Bandwidth 50% Φ_v ($I_F=20 \text{ mA}$)	$\Delta\lambda$	45	45	25	40	22	nm
Forward Voltage ($I_F=50 \text{ mA}$)	V_F	2.4 (≤ 3.8)	2.4 (≤ 3.8)	2.4 (≤ 3.8)	2.4 (≤ 3.8)	2.5 (≤ 3.8)	V
Reverse Current ($V_R=5 \text{ V}$)	I_R	0.01 (≤ 10)	0.01 (≤ 10)	0.01 (≤ 10)	0.01 (≤ 10)	0.01 (≤ 10)	μA
Capacitance ($V_R=0 \text{ V}$, $f=1 \text{ MHz}$)	C_0	55	30	55	40	120	pF
Luminous Flux* ($I_F=50 \text{ mA}$)	Φ_v	160 (≥ 100)	160 (≥ 100)	160 (≥ 100)	160 (≥ 100)	100 (≥ 40)	mlm

* Luminous flux factor of Φ_v in one packaging unit $\frac{\Phi_{VMAX}}{\Phi_{VMIN}} \leq 2$.

See graph numbers 1, 2S, 3F, 4F, 5D, 6D, 7A, 8A, 9D in the back of this section.