

SMD LED Diode 3528, LS E6SF, Red

Reference: AM3805
 EAN13: -
 HS code: 85414100

Product attributes:

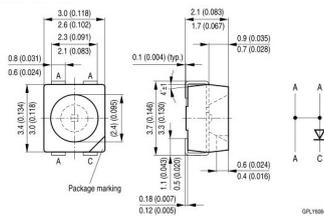
Product features:

Light color: Red
 Wavelength: 627-639 nm
 Angle of light: 120-130°
 Current: 100 mA
 Voltage: 1.9-2.5 V DC
 Lifetime: 50,000 hours



Product description:

The LED parameters can be found in the product specification.



Approximate Weight: 30.0 mg
 Package marking: Cathode
 Corrosion test: Class: 1B
 Test condition: 25°C / 75% RH / 200ppb SO₂ / 200ppb NO_x / 10ppb H₂S, 10ppb Cl₂ / 21 days (EN 60068-2-60 (Method 4))

Characteristics

$I_f = 50 \text{ mA}; T_j = 25^\circ \text{C}$

Parameter	Symbol	Values
Peak Wavelength	λ_{peak}	typ. 645 nm
Dominant Wavelength ⁽¹⁾	λ_{dom}	min. 627 nm typ. 633 nm max. 639 nm
Spectral Bandwidth at 50% $I_{f, max}$	$\Delta\lambda$	typ. 16 nm
Viewing angle at 50% I_f	2θ	typ. 120 °
Forward Voltage ⁽²⁾	V_f	min. 1.90 V typ. 2.15 V max. 2.50 V
Reverse current ⁽³⁾	I_r	typ. 0.01 μA max. 10 μA
Temperature Coefficient of Peak Wavelength -10°C ≤ T _j ≤ 100°C	TC _{peak}	typ. 0.15 nm / K
Real thermal resistance junction/solderpoint ⁽⁴⁾	R _{th(j-s)}	typ. 110 K / W max. 130 K / W
Electrical thermal resistance junction/solderpoint ⁽⁵⁾ with efficiency $\eta_e = 29\%$	R _{th(elec)}	typ. 78 K / W max. 92 K / W

Maximum Ratings

Parameter	Symbol	Values
Operating Temperature	T _{op}	min. -40 °C max. 110 °C
Storage Temperature	T _{stg}	min. -40 °C max. 110 °C
Junction Temperature	T _j	max. 125 °C
Forward current T _j = 25 °C	I _f	max. 70 mA
Surge Current 1 ≤ 10 μs ; D = 0.005; T _j = 25 °C	I _{sm}	max. 100 mA
Reverse voltage ⁽¹⁾ T _j = 25 °C	V _r	max. 12 V
ESD withstand voltage acc. to ANSI/ESDA/JEDEC JS-001 (HBM, Class 2)	V _{esd}	2 kV