

# SMD-LED-Diode 3528, LS E6SF, Rot

Artikel-Nr.: AM3805  
 EAN13: -  
 HS kód: 85414100

## Produktvarianten:

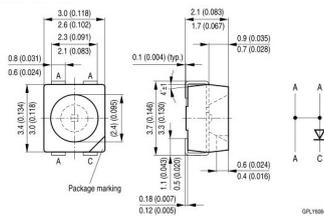


## Produktparameter:

Helle Farbe: Rot  
 Wellenlänge: 627-639 nm  
 Winkel des Lichts: 120-130°  
 Aktuell: 100 mA  
 Spannung: 1,9-2,5 V DC  
 Lebensspanne: 50.000 Stunden

## Beschreibung des Produkts:

Die LED-Parameter finden Sie in der Produktspezifikation.



Approximate Weight: 30.0 mg  
 Package marking: Cathode  
 Corrosion test: Class: 1B  
 Test condition: 25°C / 75% RH / 200ppb SO<sub>2</sub> / 200ppb NO<sub>x</sub> / 10ppb H<sub>2</sub>S, 10ppb Cl<sub>2</sub> / 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	$\lambda_{peak}$	typ. 645 nm
Dominant Wavelength <sup>(1)</sup>	$\lambda_{dom}$	min. 627 nm typ. 633 nm max. 639 nm
$I_f = 50 \text{ mA}$		
Spectral Bandwidth at 50% $I_{f,max}$	$\Delta\lambda$	typ. 16 nm
Viewing angle at 50% $I_f$	$2\theta$	typ. 120 °
Forward Voltage <sup>(1)</sup>	$V_f$	min. 1.90 V typ. 2.15 V max. 2.50 V
$I_f = 50 \text{ mA}$		
Reverse current <sup>(2)</sup>	$I_r$	typ. 0.01 $\mu\text{A}$ max. 10 $\mu\text{A}$
$V_{R1} = 12 \text{ V}$		
Temperature Coefficient of Peak Wavelength	$TC_{\lambda_{peak}}$	typ. 0.15 nm / K
-10°C ≤ T <sub>j</sub> ≤ 100°C		
Real thermal resistance junction/solderpoint <sup>(3)</sup>	$R_{th(j-s)}$	typ. 110 K / W max. 130 K / W
Electrical thermal resistance junction/solderpoint <sup>(3)</sup>	$R_{th(e-s)}$	typ. 78 K / W max. 92 K / W
with efficiency $\eta_e = 29\%$		

### 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	$I_f$	max. 70 mA
$T_j = 25^\circ \text{C}$		
Surge Current	$I_{SM}$	max. 100 mA
1 ≤ 10 $\mu\text{s}$ ; D = 0.005; $T_j = 25^\circ \text{C}$		
Reverse voltage <sup>(1)</sup>	$V_R$	max. 12 V
$T_j = 25^\circ \text{C}$		
ESD withstand voltage	$V_{ESD}$	2 kV
acc. to ANSI/ESDA/JEDEC JS-001 (HBM, Class 2)		