

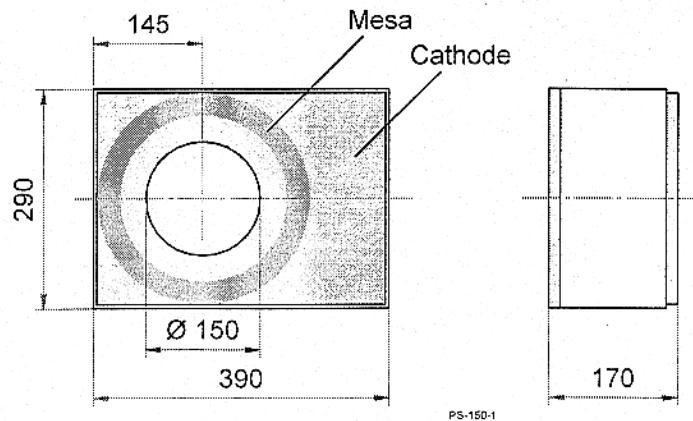
Point-source LED chip (\varnothing 150 μm)

ELC-645-29-5

Preliminary data

Color	Type	Technology	Electrodes
Red	ELC-645-29-5	AllnGaP/GaAs	N (cathode) up

Outline (dimensions in microns)



Maximum Ratings

$T_{\text{amb}} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		I_F	50	mA
Peak forward current	($t_p \leq 50 \mu\text{s}$, $t_p/T = 1/2$)	I_{FM}	100	mA

Optical and Electrical Characteristics

$T_{\text{amb}} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 50 \text{ mA}$	V_F		2.5		V
Reverse voltage	$I_R = 100 \mu\text{A}$	V_R	4			V
Radiant power	$I_F = 50 \text{ mA}$	Φ_e		1.0		mW
Luminous flux	$I_F = 50 \text{ mA}$	Φ_v		100		mlm
Luminous intensity	$I_F = 50 \text{ mA}$	I_v		38		mcd
Peak wavelength	$I_F = 50 \text{ mA}$	λ_p		645		nm
Spectral bandwidth at 50%	$I_F = 50 \text{ mA}$	$\Delta\lambda_{0.5}$		26		nm

Labeling

Type	Lot N°	Φ_e (typ, min, max)	Quantity
ELC-645-29-5			

Packing

Chips on adhesive film with wire-bond side on top