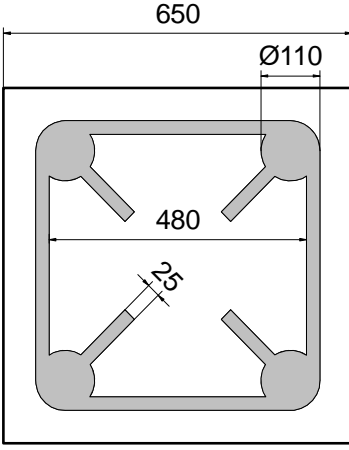


Radiation	Type	Technology	Electrodes
Infrared	DDH	AlGaAs/AlGaAs	N (cathode) up

 <p style="text-align: center;">LED-07</p>	typ. dimensions (μm)
	<p>typ. thickness 180 μm</p> <p><u>anode</u> gold alloy, 1.5 μm</p> <p><u>cathode</u> gold alloy, 0.5 μm structured, 25% covered</p>

Optical and Electrical Characteristics

T_{amb} = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 20 mA	V _F		1.2	1.4	V
Forward voltage	I _F = 100 mA	V _F		1.45	1.8	V
Reverse voltage	I _R = 100 μA	V _R	5			V
Radiant power ¹	I _F = 20 mA	Φ _e	2.5	3.5		mW
Radiant power ²	I _F = 100 mA	Φ _e		17		mW
Radiant power ³	I _F = 100 mA	Φ _e		35		mW
Radiant intensity ¹	I _F = 20 mA	I _e	0.75	1.0		mW/sr
Peak wavelength	I _F = 100 mA	λ _p	860	875	890	nm
Spectral bandwidth at 50%	I _F = 100 mA	Δλ _{0.5}		45		nm
Switching time	I _F = 100 mA	t _r , t _f		20		ns

¹Measured on bare chip on TO-18 header

²Measured on bare chip on TO-18 header and heat sink

³Measured on epoxy chip on TO-18 header and heat sink, 10s current flow (information only)

Note: All measurements carried out with JENOPTIK Polymer Systems equipment

Labeling

Type	Lot N°	Φ _e (typ) [mW]	V _F (typ) [V]	Quantity
ELC-875-22				

Packing: Chips on adhesive film with wire-bond side on top

Environmental		Symbol	Min	Typ	Max	Unit
Storage Temperature	on Blue Tape	T _{STG}	15		30	°C
Storage Relative Humidity	on Blue Tape	RH _{STG}	40		75	% RH
Storage Time	on Blue Tape	t _{STG}			1	year

We reserve the right to make changes to improve technical design and may do so without further notice.

Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

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