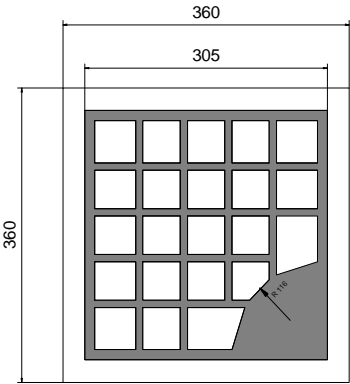


Radiation	Type	Technology	Electrodes
Infrared	MQW	InGaAs/InP	P (anode) up

	typ. dimensions (μm)
	typ. thickness 260 (±20) μm <u>anode</u> gold alloy, 1.5 μm <u>cathode</u> gold alloy, 0.5 μm

Maximum Ratings

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward current (DC)		I _F			100	mA
Peak forward current	t _p ≤ 50 μs, t _p /T = 1/2	I _{FM}			200	mA

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		1.15	1.35	V
Forward voltage	I _F = 100 mA	V _F		1.25	1.45	V
Reverse voltage	I _R = 100 μA	V _R	5			V
Radiant power ¹	I _F = 20 mA	Φ _e	0.12	0.18		mW
Radiant power ¹	I _F = 100 mA	Φ _e		1.0		mW
Radiant power ²	I _F = 100 mA	Φ _e		2.0		mW
Peak wavelength	I _F = 20 mA	λ _p	960	980	1000	nm
Spectral bandwidth at 50%	I _F = 20 mA	Δλ _{0.5}		35		nm
Switching time	I _F = 20 mA	t _r , t _f		25; 35		ns

¹Measured on bare chip on TO-18 header with JENOPTIK Polymer Systems equipment

²Measured on epoxy covered chip on TO-18 header with JENOPTIK Polymer Systems equipment

Labeling

Type	Lot N°	Φ _e (typ) [mW]	V _F (typ) [V]	λ _p (typ) [nm]	Quantity
ELC-980-17-1		20 mA	20 mA		

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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