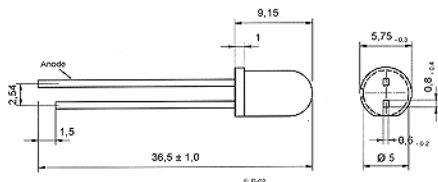


Preliminary data

Color	Type	Technology	Case
Infrared	ELD-1020-515-1	InGaAs/InP QW	5 mm plastic lens



Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		I_F	100	mA
Reverse voltage	$I_R = 100 \mu\text{A}$	V_R	3	V
Operating temperature range		T_{amb}	-20 to +80	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-30 to +100	$^{\circ}\text{C}$

Optical and Electrical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 50 \text{ mA}$	V_F		1.6		V
Radiant power	$I_F = 50 \text{ mA}$	Φ_e		0.5		mW
Radiant power	$I_F = 100 \text{ mA}$	Φ_e		1.0		mW
Peak wavelength	$I_F = 50 \text{ mA}$	λ_p		1020		nm
Spectral bandwidth at 50%	$I_F = 50 \text{ mA}$	$\Delta\lambda_{0,5}$		180		nm
Viewing angle		φ		14		deg.