

The EL - 316 is a high - power GaAs IRED mounted in a clear epoxy package.

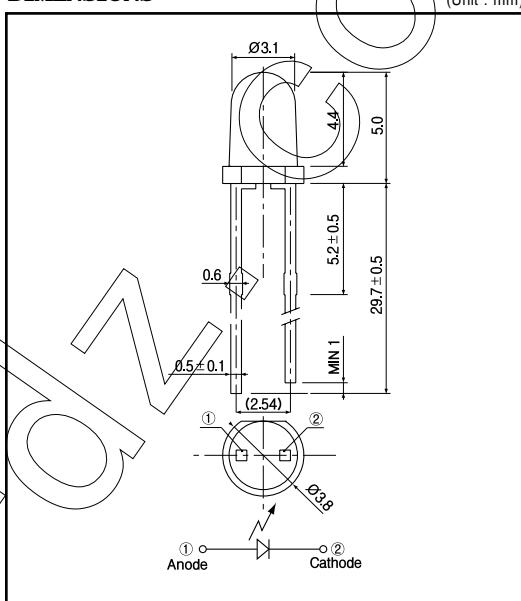
FEATURES

- ø 3 casting mold type
- High output power

APPLICATIONS

- VTR
- Optical remote controllers
- Transmission sensors

DIMENSIONS



MAXIMUM RATINGS

Item	Symbol	Rating	Unit
Reverse voltage	V_R	4	V
Forward current	I_F	60	mA
Power dissipation	P_D	80	mW
Pulse forward current ^{*1}	I_{FP}	0.5	A
Operating temp.	Topr.	- 25 + 80	
Storage temp.	Tstg.	- 40 + 85	
Soldering temp. ^{*2}	Tsol.	240	

^{*1}. pulse width : tw 100 sec.period : T=10msec.

^{*2}. For MAX.5 seconds at the position of 2 mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Forward voltage	V_F	$I_F=40\text{mA}$		1.2	1.5	V
Reverse current	I_R	$V_R=4\text{V}$			10	µA
Peak emission wavelength	λ	$I_F=40\text{mA}$		940		nm
Spectral bandwidth		$I_F=40\text{mA}$		50		nm
Radiant intensity	P_O	$I_F=40\text{mA}$	10	20		mW/sr
Half-angle				± 17		deg.

Infrared Emitting Diodes(GaAs)

EL - 316

