

EL - 1K3

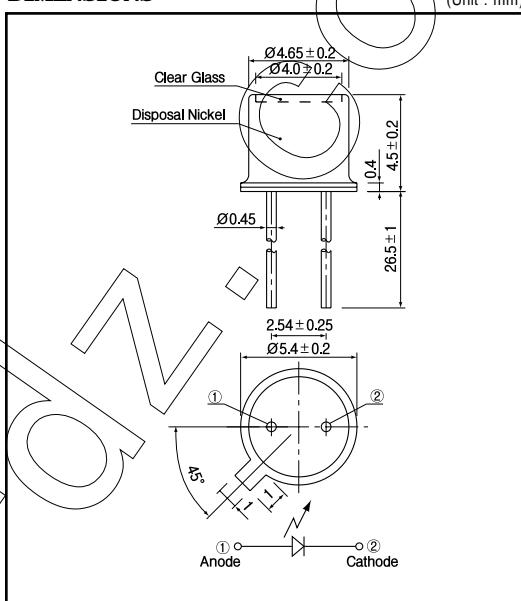
The EL - 1K3 is a high - power GaAs IRED mounted in durable, hermetically sealed TO - 18 metal can package, which provides years of reliable performance even under demanding conditions such as use outdoors.

FEATURES

- Wide beam angle
- Durable
- High reliability in demanding environments

APPLICATIONS

- Optical emitters
- Optical switches
- Smoke sensors

DIMENSIONS**MAXIMUM RATINGS**

Item	Symbol	Rating	Unit
Reverse voltage	V_R	5	V
Forward current	I_F	100	mA
Pulse forward current ^{*1}	I_{FP}	1	A
Power dissipation	P_D	200	mW
Operating temp.	T _{opr.}	- 30 ~ + 100	
Storage temp.	T _{stg.}	- 55 ~ + 125	
Soldering temp. ^{*2}	T _{sol.}	260	

^{*1}. pulse width : tw 100 μ 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	$I_F = 100\text{mA}$		1.35	1.7	V
Reverse current	I_R	$V_R = 5\text{V}$			10	μA
Capacitance	C_T	$f = 1\text{MHz}$		25		pF
Radiant intensity	P_0	$I_F = 100\text{mA}$	2.2	4.0		mW/sr
Peak emission wavelength	λ	$I_F = 100\text{mA}$		940		nm
Spectral bandwidth,50%		$I_F = 100\text{mA}$		50		nm
Half-angle				± 36		deg.

Infrared Emitting Diodes(GaAs)

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