AUK CORP.

Infrared Emitting Diode

KEL5002A

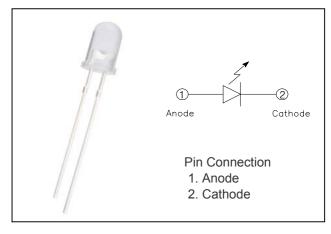
Description

The KEL5002A is GaAlAs infrared emitting diode that is designed for high power, low forward voltage This device is optimized for speed and efficiency at emission wavelength 940nm and has a high radient efficiency over a wide range of forward current. This device is packaged T13/4 package.

Features

- 940nm wavelength

- Low forward voltage
- High power and high reliability
- Available for pulse operating





Applications

- IR Audio and Telephone
- IR communication
- Optical Switch
- Available for wireless digital data transmission

Absolute Maximum Ratings	[T _A = 25°C]			
Parameter	Symbol	Min.	Max.	Max.
Reverse Voltage	V _R	-	5	V
Forward Current	۱ _F	-	100	mA
Power Dissipation	P _D	-	170	mW
Pulse Forward Current*1	I _{FP}	-	1.0	А
Operating Temperature	Topr	-30	85	ĉ
Storage Temperature	Tstg	-30	100	°C
Soldering Temperature*2	Tsol	-	260	°C

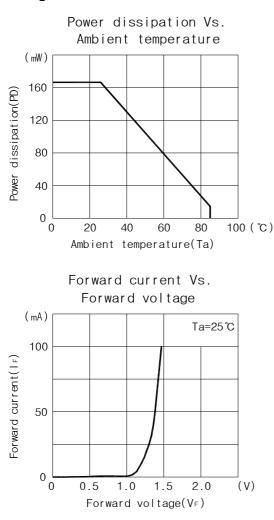
*1 : Pulse Width : Tw \leq 100 μ s, Periode : T = 10 ms

*2 : MAX 5s

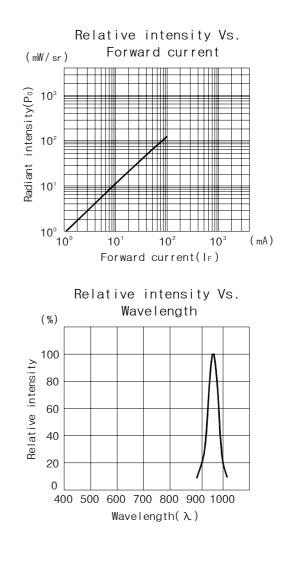
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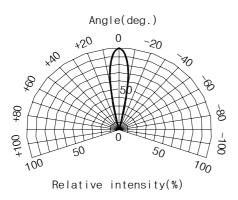
KEL5002A



Rating and Characteristic Curves



Radiant Pattern



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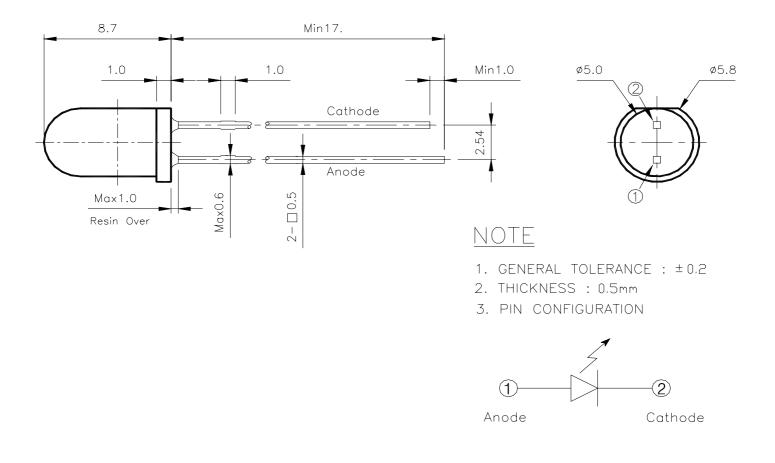


KEL5002A

Electrical Characteristics				[T _A = 25°C]		
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I _F =50mA	-	1.4	1.7	V
Reverse Current	I _R	V _R =5V	-	-	10	μA
Radiant Intensity	le	I _F =50mA	30	60	-	mW/sr
Peak Emission Wavelength	λ _P	I _F =50mA	-	940	-	nm
Spectral Bandwidth 50%	Δλ	I _F =50mA	-	45	-	nm
Half Angle	Δθ	IF=50mA	-	±10		deg.

Package Outline Dimensions

(Unit : mm)



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