t光电 http://www.yc-dz.com GL430

Infrared Light Emitting Diode

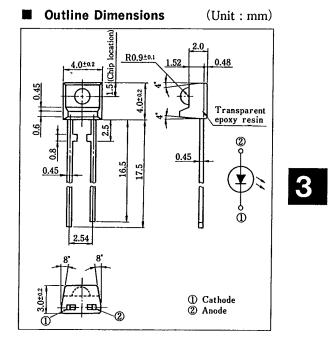
T-41-11 Narrow Beam Infrared Light Emitting Diode GL430

Features

- Narrow beam angle ($\Delta \theta$: TYP. ±13°) 1.
- Epoxy resin package 2.

Applications

- Optoelectronic switches, optoelectronic 1. counters
- 2. Smoke detectors, infrared remote controllers



Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Power dissipation	Р	75	mW
*'Forward current	IF	50	mA
Peak forward current	IFM	1	Α
Reverse voltage	VR	6	v
Operating temperature	Topr	-25~+85	·Ċ
Storage temperature	T _{stg}	-40~+85	•C
*2Soldering temperature	T _{sol}	260	.C

Pulse width $\leq 100 \mu$ s, Duty ratio = 0.01 *1

For 3 seconds at the position of 2.5mm from the bottom face of resin package *2

Electro-optical Characteristics

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	VF	I _F =20mA		1.2	1.4	v
Peak forward voltage	V _{FM}	I _{FM} =0.5A	-	3	4	V
Reverse current	IR	$V_R = 3V$	-	—	10	μA
Terminal capacitance	C,	V=0, f=1MHz		50		pF
Radiant flux	Φe	I _F =20mA	0.5		2.0	mW
Peak emission wavelength	λρ	I _F =5mA		950		nm
Half intensity wavelength	Δλ	I _F =5mA		45		nm

(Ta=25°C)

SHARP

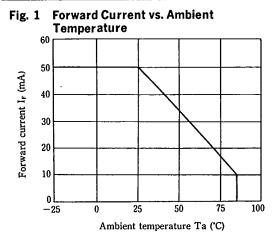
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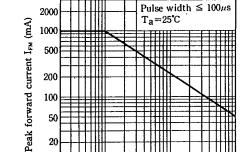


Fig. 2 Peak Forward Current vs. Duty Ratio

5 Duty ratio

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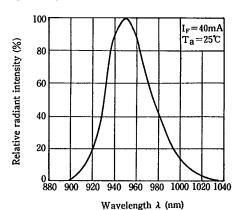
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SHARP Infrare





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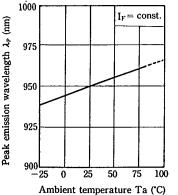
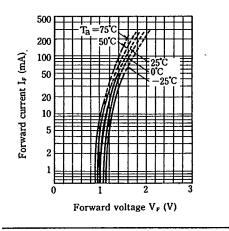
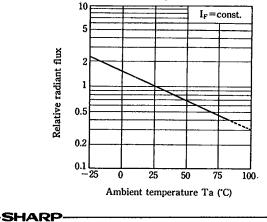


Fig. 5 Forward Current vs. Forward Voltage

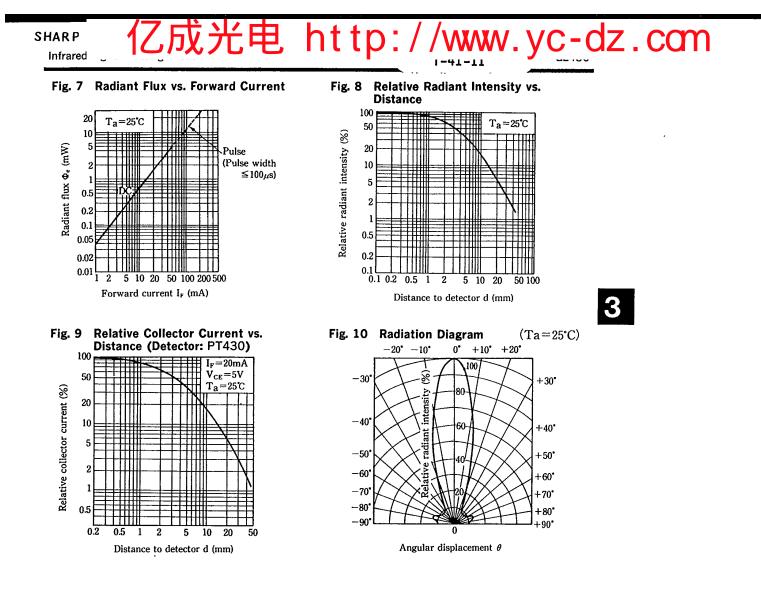






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