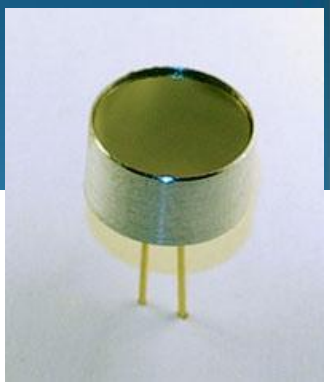
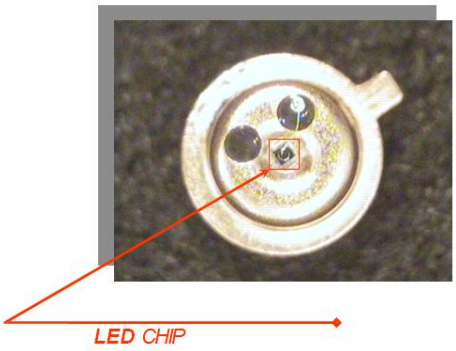
LIGHT-EMITTING DIODE

LED-334 - NS



Features

- ☺ **Peak emission wavelength: 3.34 μm**
- ☺ **Narrow Spectrum emission**
- ☺ **High radiant output power**
- ☺ **Narrow directivity**
- ☺ **High speed response**



Applications

- ☺ **Light source for CH_4, C_2H_6, C_3H_8, C_6H_6, CH_3Cl, $C_2H_4Cl_2$ and HCl gas**

Accessories (optional)

- Driver for LEDs **D-31M**

Absolute maximum ratings (Ta=25 °C, unless otherwise noted)

Package	Parameter	Symbol	Value	Unit
TO-18	Reverse voltage	V_r	0.25	V
	Forward current	I_f	200	mA
	Pulse forward current (Pulse width = 2.0 μs, Duty ratio = 10 %)	I_{fp}	2	A
	Forward current derating rate (Ta>25 ℃)	IFT	2	mA/℃
	Power dissipation	P	22	μW
	Operating temperature	Topr	-30 to 85	℃
	Storage temperature	Tstg	-40 to 100	℃
	Weight	m	0.65	g
	Size	D	9.0	mm
		H	18.5	

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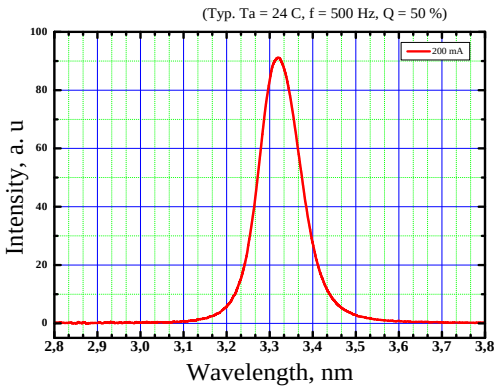
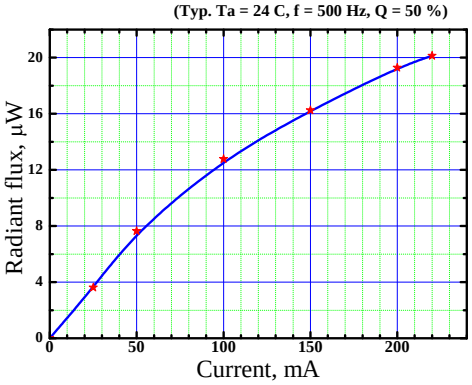
Electrical and optical characteristics (Ta=25 °C)

Parameter	Symbol	Condition	LED-334 - NS			Unit
			Min.	Typ.	Max.	
Peak emission	λ_p	I_F=50 mA		3.34		μm
Spectral half width	Δλ	I_F=50 mA		200		nm
Radiant flux	ϕe	I_F=200 mA		18		μW
Forward voltage	V_F			0.45		V
Reverse current	I_R	V_R=0.2 V		5		mA

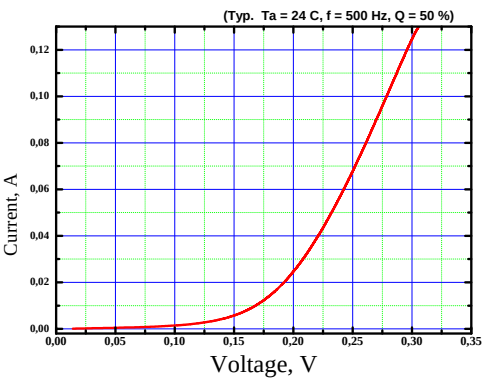
Emission spectrum



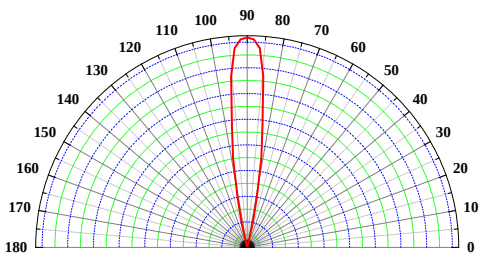
Radiant flux vs. forward current



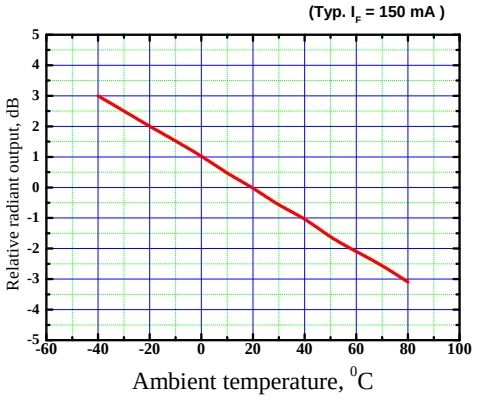
Forward current vs. forward voltage



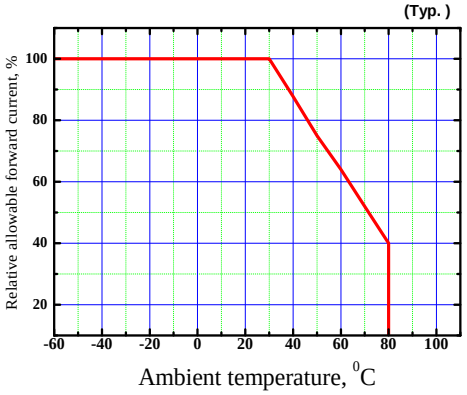
Directivity



Radiant output vs. ambient temperature



Allowable forward current vs. ambient temperature



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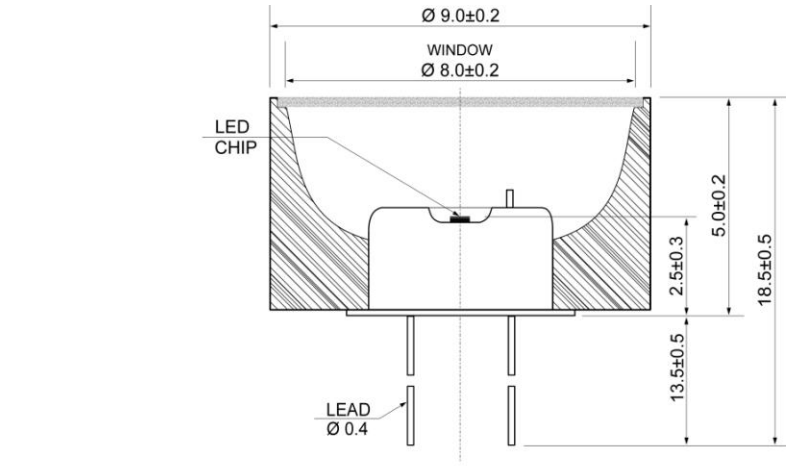
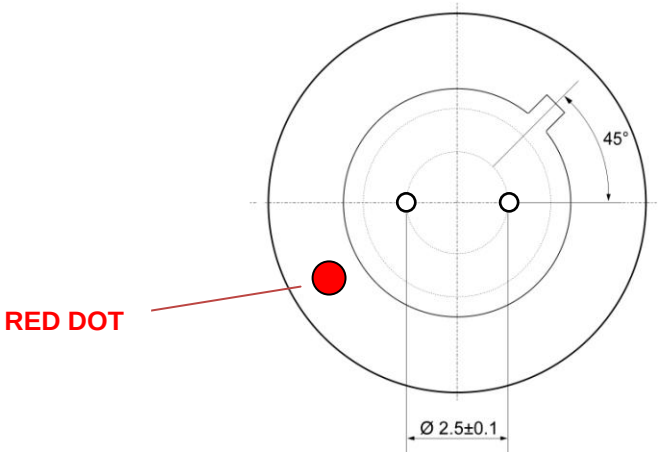
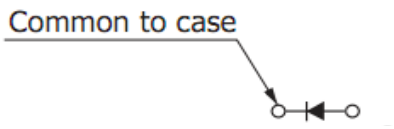
Dimensional outlines (unit: mm)







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