

Infrared LED

L2656 series

High power GaAlAs infrared LED



Features

- High radiant output power
- High reliability

Applications

- Optical switch
- Automatic control system

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

■ Absolute maximum ratings (Ta=25 °C)

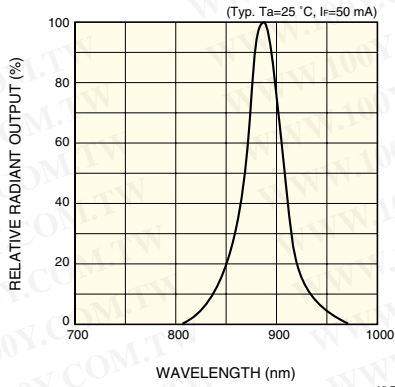
Parameter	Symbol	Condition	Value	Unit
Forward current	IF		80	mA
Reverse voltage	VR		5	V
Pulse forward current	IFP	Pulse width=10 μs Duty ratio=1 %	1.0	A
Operating temperature	Topr		-30 to +85	°C
Storage temperature	Tstg		-40 to +100 *	°C

* Guaranteed to resist temperature cycle test of up to 5 cycles.

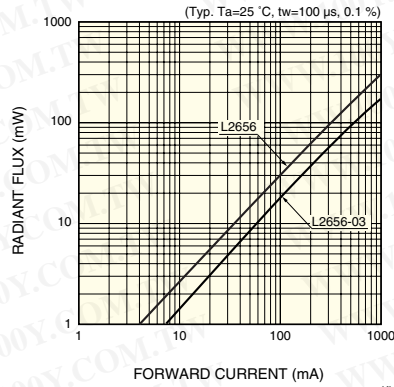
■ Electrical and optical characteristics (Ta=25 °C)

Parameter	Symbol	Condition	L2656			L2656-03			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Peak emission wavelength	λ_p	IF=50 mA	870	890	920	870	890	920	nm
Spectral half width	$\Delta\lambda$	IF=50 mA	-	50	-	-	50	-	nm
Forward voltage	VF	IF=50 mA	-	1.45	1.6	-	1.45	1.6	V
Pulse forward voltage	VFP	IF=1 A	-	3.4	4.0	-	3.4	4.0	V
Reverse current	IR	VR=5 V	-	-	5	-	-	5	μA
Radiant flux	ϕ_e	IF=50 mA	13	15	-	7.5	9	-	mW
Radiant illuminance	PE	IF=50 mA	-	1.7	-	-	4.4	-	mW/cm ²
Rise time	tr	IF=50 mA, 10 to 90 %	-	0.45	0.7	-	0.45	0.7	μs
Fall time	tf	IF=50 mA, 90 to 10 %	-	0.45	0.7	-	0.45	0.7	μs

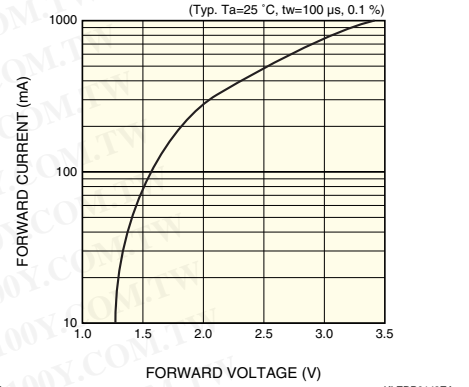
■ Emission spectrum



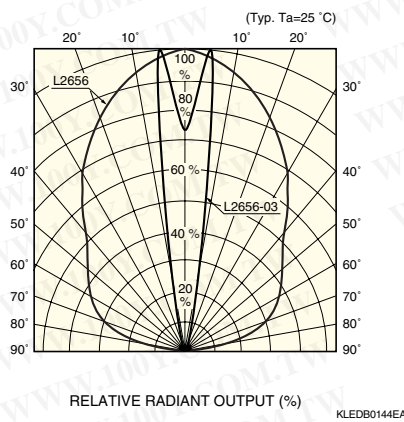
■ Radiant flux vs. forward current



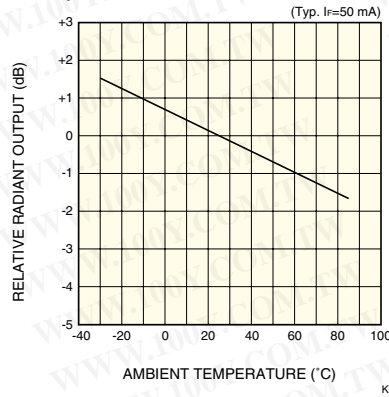
■ Forward current vs. forward voltage



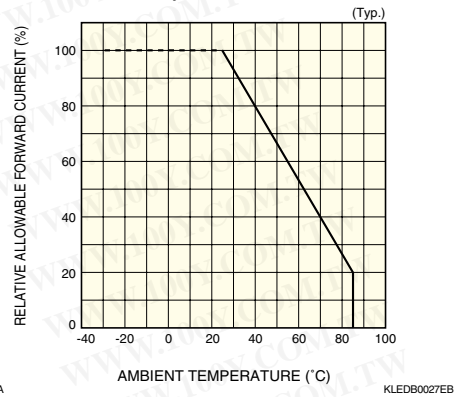
■ Directivity



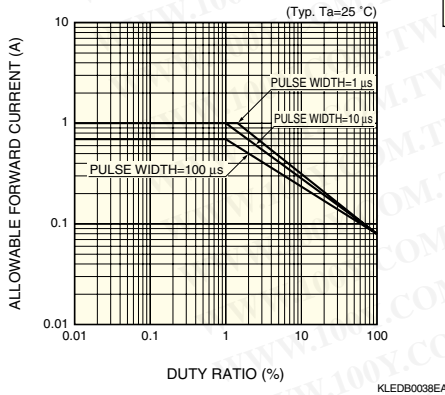
■ Radiant output vs. ambient temperature



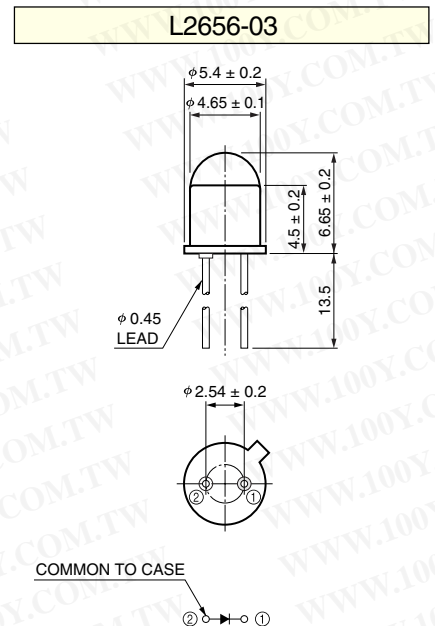
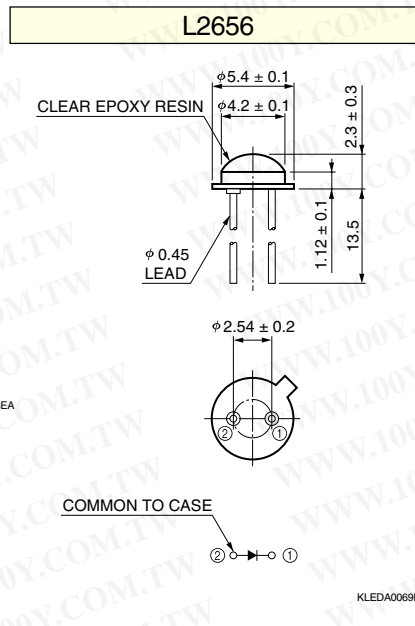
■ Allowable forward current vs. ambient temperature



■ Allowable forward current vs. duty ratio



■ Dimensional outlines (unit: mm)



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