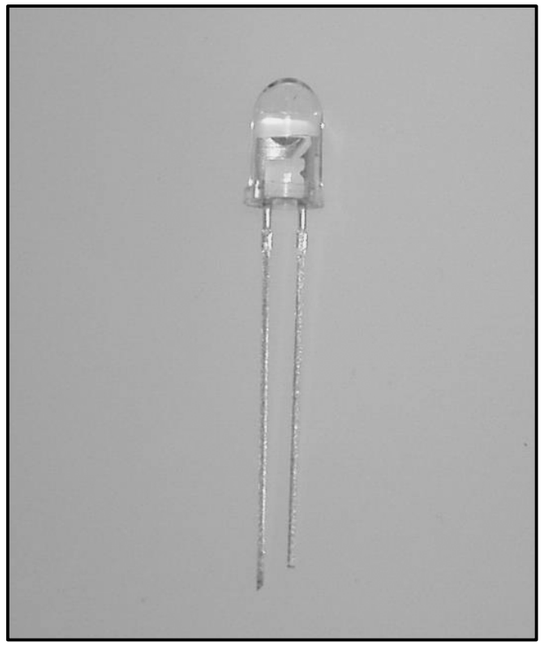
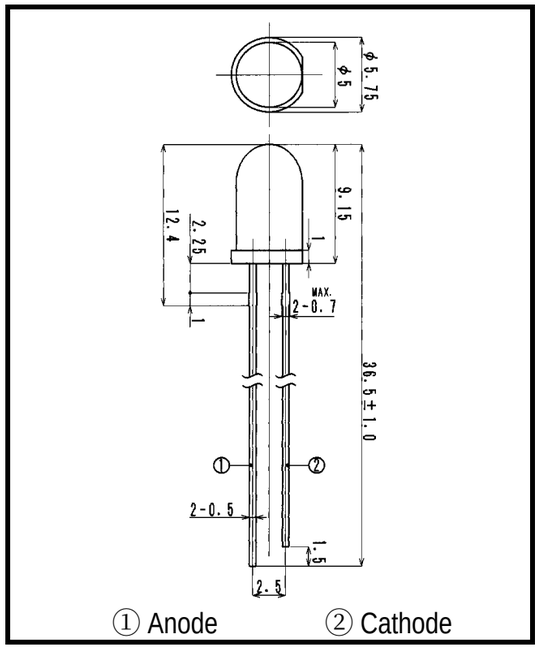
R-660-514N5





① Anode ② Cathode

Dimensions (Unit:mm)

FEATURES
- High Output Power
- High Luminous Intensity
- Narrow Beam Angle
- High Reliability

APPLICATIONS
- Optical Sensor
- Bar-code Reader
- Edge Sensing (Coin Dispenser)
- Indicators

1. ABSOLUTE MAXIMUM RATINGS

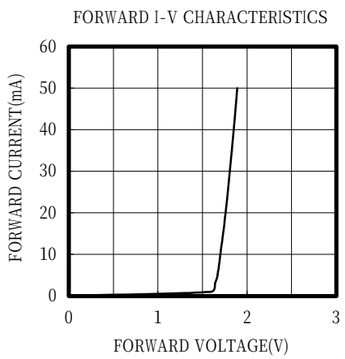
I T E M	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	50	mA
Forward Current (Pulse)*1	IFP	0.5	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	120	mW
Operating Temp.	Topr	-20 TO 80	℃
Storage Temp.	Tstg	-30 TO 100	℃
Junction Temp.	Tj	100	℃
Lead Soldering Temp.*2	Tls	260	℃

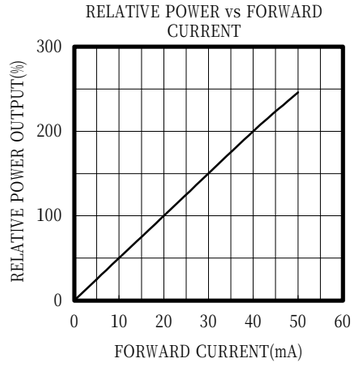
*1:Tw=10uS,T=10mS

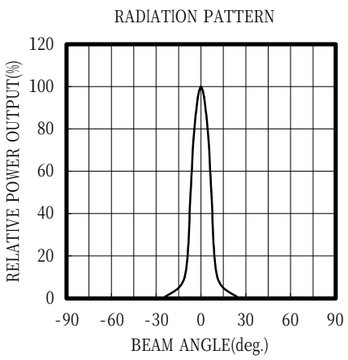
*2:Time 3 Sec max,Position:Up to 2mm from the body

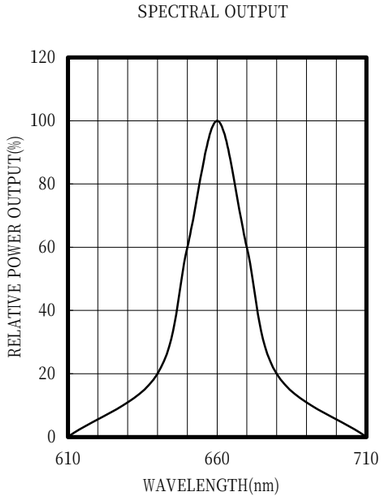
2.ELECTRICAL & OPTICAL CHARACTERISTICS (Ta=25℃)

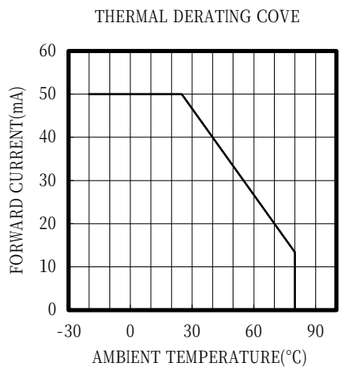
I T E M	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	4.0	5.0		mW
Luminous Intensity	Iv	IF=20mA	1200	3000		mcd
Forward Voltage	VF	IF=20mA		1.8	2.2	V
Reverse Current	IR	VR=5V			100	μA
Peak Wavelength	λp	IF=20mA		660		nm
Spectral Line Half Width	Δλ	IF=20mA		25		nm
Half Intensity Beam Angle	θ	IF=20mA		±7		deg.
Rise Time	Tr	IFP=20mA		30		nS
Fall Time	Tf	IFP=20mA		30		nS
Junction Capacitance	Cj	1MHz ,V=0V		20		pF
Temp. Coefficient of PO	P/T	IF=10mA		-0.5		%/℃
Temp. Coefficient of VF	V/T	IF=10mA		-1.5		mV/℃

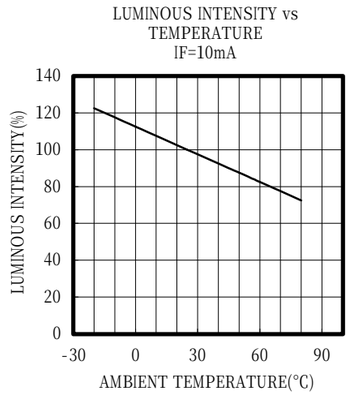


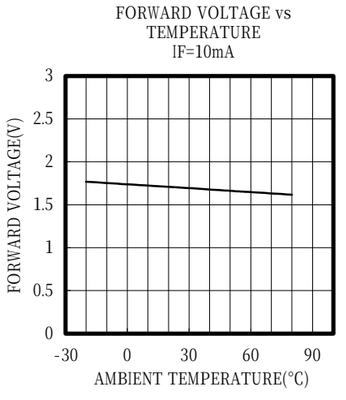












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