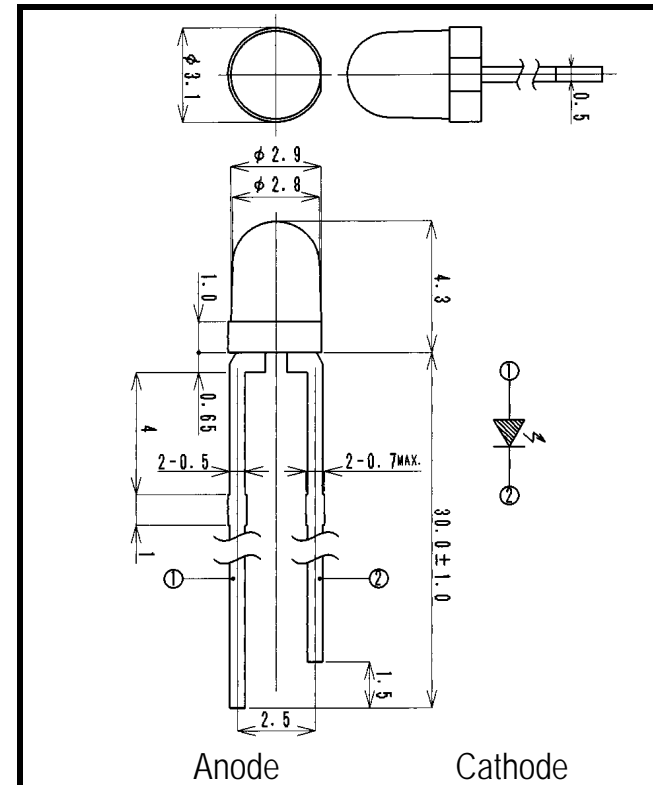
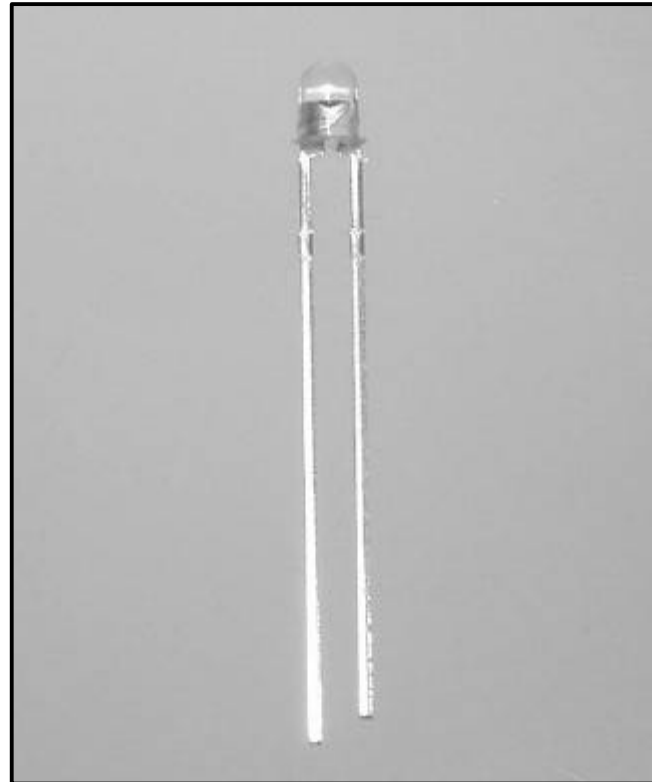


VSF614C1

Visible Light Emitting Diode



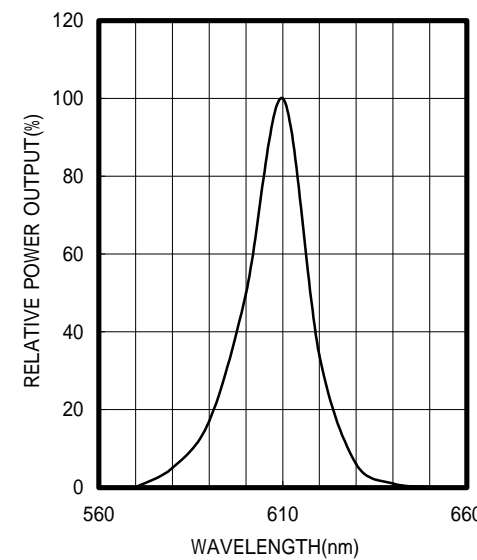
Anode Cathode
Dimensions (Unit:mm)

- FEATURES**
- High Luminous Intensity
 - Wide Illumination
 - Compact
- APPLICATIONS**
- Displays
 - Indicators
 - Decorations

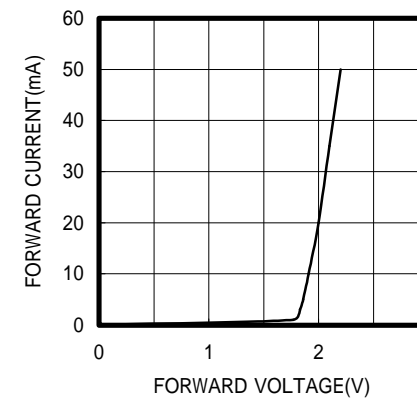
2. ELECTRICAL & OPTICAL CHARACTERISTICS (Ta=25 °C)

ITEM	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	0.9	1.7		mW
Luminous Intensity	Iv	IF=20mA		300		mcd
Forward Voltage	VF	IF=20mA		2.0	2.4	V
Reverse Current	IR	VR=5V			100	μA
Peak Wavelength	λp	IF=20mA		610		nm
Spectral Line Half Width		IF=20mA		17		nm
Half Intensity Beam Angle		IF=20mA		±30		deg.
Rise Time	Tr	IFP=20mA		-		nS
Fall Time	Tf	IFP=20mA		-		nS
Junction Capacitance	Cj	1MHz, V=0V		20		pF
Temp. Coefficient of Iv	Iv/T	IF=10mA		-0.8		%/°C
Temp. Coefficient of VF	Vf/T	IF=10mA		-1.7		mV/°C

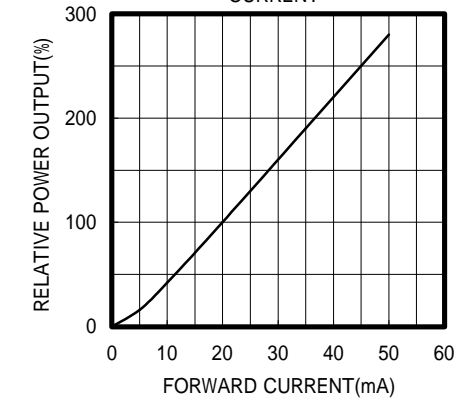
SPECTRAL OUTPUT



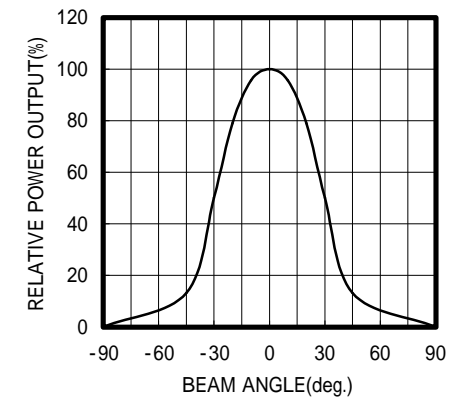
FORWARD I-V CHARACTERISTICS



RELATIVE POWER vs FORWARD CURRENT



RADIATION PATTERN



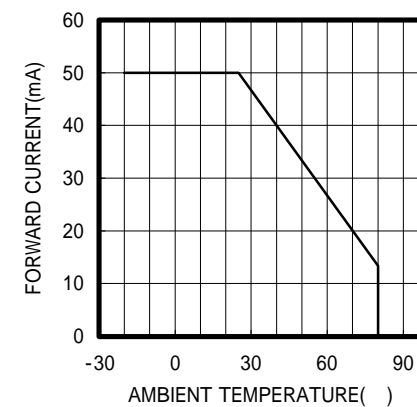
1. ABSOLUTE MAXIMUM RATINGS (Ta=25 °C)

ITEM	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	

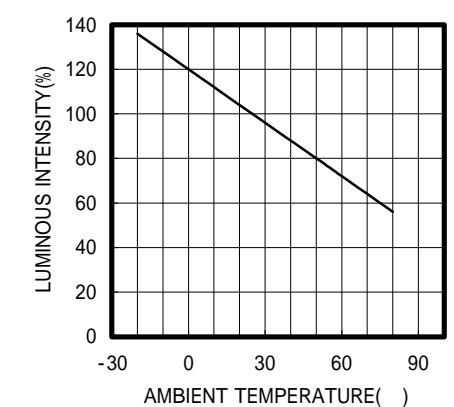
*1: Tw=10μs, T=10mS

*2: Time 5 Sec max, Position: Up to 3mm from the body

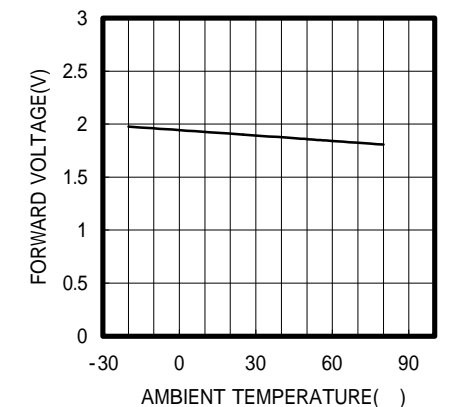
THERMAL DERATING CURVE



LUMINOUS INTENSITY vs TEMPERATURE
IF=10mA



FORWARD VOLTAGE vs TEMPERATURE
IF=10mA



OPTRANS

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