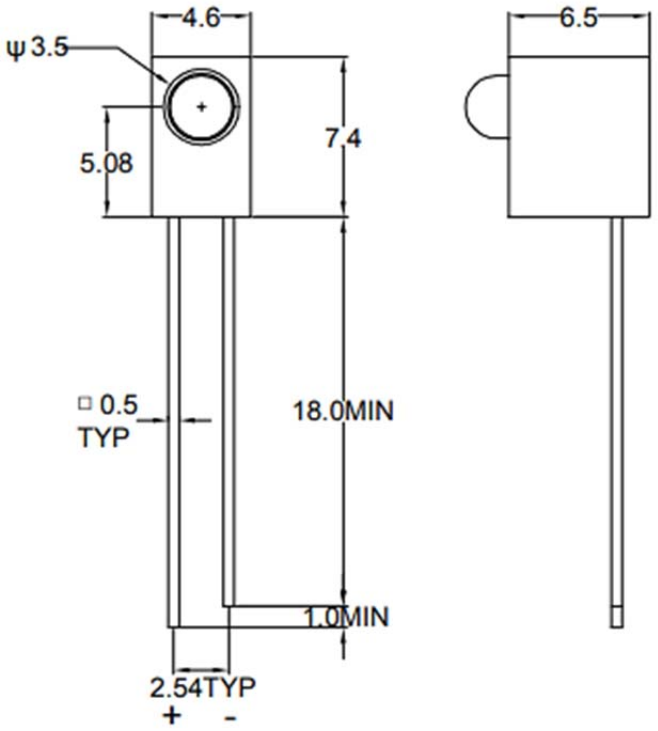
American Opto Plus LED Corp.
L354L-GD-H302
3mm Green LED Lamp W/ Holder

PACKAGE DIMENSION



Notes:

1. All dimension are in millimeter tolerance is ±0.25 mm unless otherwise noted
2. Specifications are subject to change without notice.

Material	Color	
	Emitted	Lens
GaP	Green	Green Diffused

ABSOLUTE MAXIMUM RATINGS **(Ta=25°C)**

Parameter	Symbol	Value	Unit
Forward Current	If	30	mA
Peak Forward Current Duty 1/10 @ 10KHz	Ifp	120	mA
Power Dissipation	Pd	100	mW
Reverse Current @ 5V	Ir	10	μA
Operating Temperature Range	Topr	-40~+85	°C
Storage Temperature Range	Tstg	-40~+100	°C
Soldering Temperature	Tsol	Max 260°C for 5 sec Max (2mm from body)	

OPTICAL-ELECTRICAL CHARACTERISTICS **(Ta=25°C)**

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous intensity	Iv	IF = 10mA	12	20	--	mcd
Peak Wavelength	λP	IF = 20mA	--	565	--	nm
Spectral Halfwidth	Δλ		--	30	--	nm
Forward Voltage	Vf		1.7	--	2.6	V
Viewing angle	2Θ ½		--	50	--	Deg

Notes:

1. The forward voltage data did not including ±0.1V testing tolerance.
2. The luminous intensity data did not including ±15% testing tolerance.

ELECTRICAL-OPTICAL CHARACTERISTIC CURVES **(Ta=25°C)**

Fig.1 Forward current vs. Forward Voltage

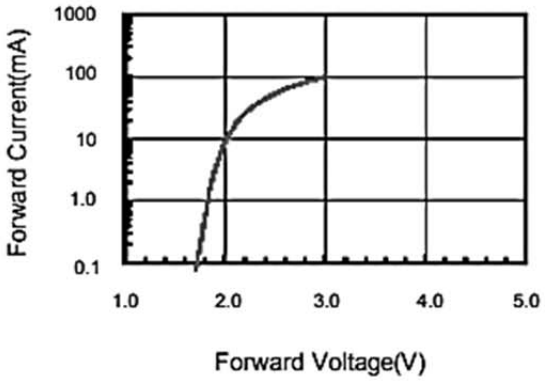


Fig.2 Relative Intensity vs. Forward Current

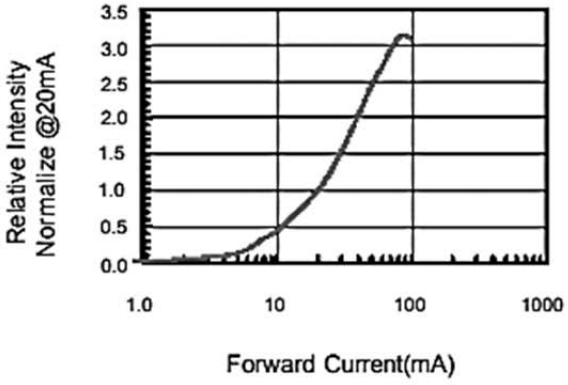


Fig.3 Forward Voltage vs. Temperature

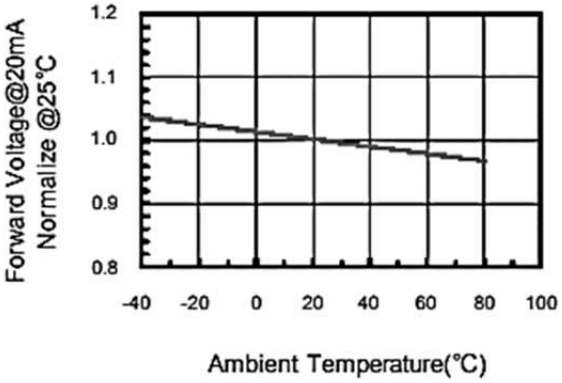


Fig.4 Relative Intensity vs. Temperature

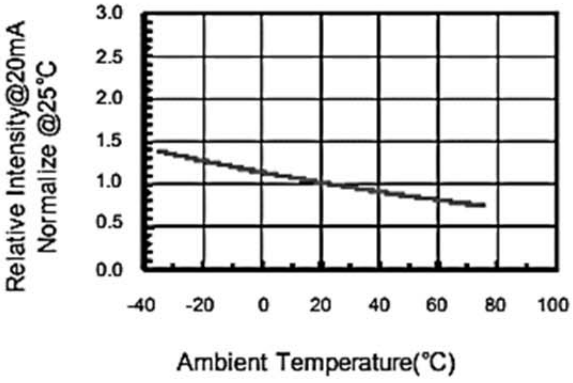
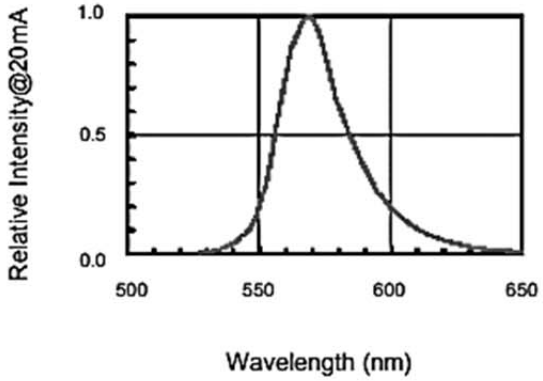


Fig.5 Relative Intensity vs. Wavelength



RELIABILITY TEST

Test Item	Test Condition	Description	Reference Standard
Operating Life Test	1.Under Room Temperature 2.If=20mA 3.t=1000 hrs (-24hrs, +72hrs)	This test is conducted for the purpose of detemining the resisance of a part in electrical and themal stressed.	MIL-STD-750: 1026 MIL-STD-883: 1005 JIS C 7021: B-1
High Temperature Storage Test	1.Ta=105℃±5℃ 2.t=1000 hrs (-24hrs, +72hrs)	The purpose of this is the resistance of the device which is laid under ondition of high temperature for hours.	MIL-STD-883:1008 JIS C 7021: B-10
Low Temperature Storage Test	1.Ta=-40℃±5℃ 2.t=1000 hrs (-24hrs, +72hrs)	The purpose of this is the resistance of the device which is laid under condition of low temperature for hours.	JIS C 7021: B-12
High Temperature High Humidity Test	1.Ta=65℃±5℃ 2.RH=90％~95％ 3.t=240hrs ±2hrs	The purpose of this test is the resistance of the device under tropical for hous.	MIL-STD-202:103B JIS C 7021: B-11
Thermal Shock Test	1.Ta=105℃±5℃&-40℃±5℃ (10min) (10min) 2.total 10 cycles	The purpose of this is the resistance of the device to sudden extreme changes in high and low temperature.	MIL-STD-202: 107D MIL-STD-750: 1051 MIL-STD-883: 1011
Solder Resistance Test	1.T.Sol=260℃±5℃ 2.Dwell time= 10 ±1sec.	This test intended to determine the thermal characteristic resistance of the device to sudden exposures at extreme changes in temperature when soldering the lead wire.	MIL-STD-202: 210A MIL-STD-750: 2031 JIS C 7021: A-1
Solderability Test	1.T.Sol=230℃±5℃ 2.Dwell time=5 ±1sec	This test intended to see soldering well performed or not.	MIL-STD-202: 208D MIL-STD-750: 2026 MIL-STD-883: 2003 JIS C 7021: A-2