

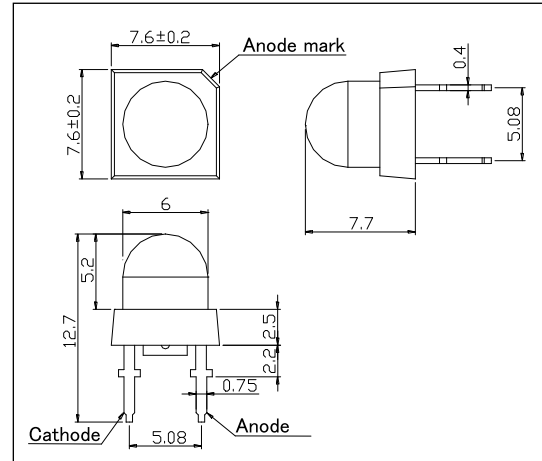
FL660N-03-50
Super Flux Mold Type LED

FL660N-03-50 is an AlGaInP LED mounted on a lead frame and molded with super beam lens. On forward bias it emits a band of visible light which peaks 660nm. These devices are Intended to be operated at pulsed current of 500mA under maximum 4V.

Outer Dimension (Unit:mm)

<Specifications>

1. Product Name: Super Flux Mold Type LED
2. Type Number: FL660N-03-50
3. Chip:
 - Chip material: AlGaInP
 - Chip Dimension: 500um x 500um
 - Peak Wavelength: 660nm
4. Package
 - Type: Super Beam Type LED
 - Resin Material: Epoxy Resin
 - Lead Frame: Silver Plated Copper



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	390	mW	Ta=25°C
Forward Current	IF	150	mA	Ta=25°C
Pulse Forward Current*	IFP	500	mA	Ta=25°C
Reverse Voltage	VR	10	V	Ta=25°C
Thermal Resistance	Rthja	100	K/W	
Operating Temperature	TOPR	-30 ~ +85	°C	
Storage Temperature	TSTG	-40 ~ +100	°C	
Soldering Temperature**	TSOL	265	°C	

* Duty=1% and Pulse Width=10us

** Soldering Condition must be completed within 3 seconds at 265 °C

Electro-Optical Characteristics [Ta=25°C typ.]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=100mA		2.2	2.5	V
Pulsed Forward Voltage	VF	IFP=500mA		3.0	4.0	V
Reverse Current	IR	VR=10V			10	uA
Radiated Power*	PO	IF=100mA	40	70		mW
Radiant Intensity**	IE	IF=100mA		190		mW/sr
Brightness	IV	IF=100mA		18000		mcd
Peak Wavelength	λP	IF=100mA	650	660	670	nm
Half Width	Δλ	IF=100mA		18		nm
Viewing Half Angle	θ1/2	IF=100mA		±9		deg
Rise Time	tr	IF=100mA		60		ns
Fall Time	tf	IF=100mA		6		ns

* Measured by S3584-08

** Measured by Tektronix J-6512

