

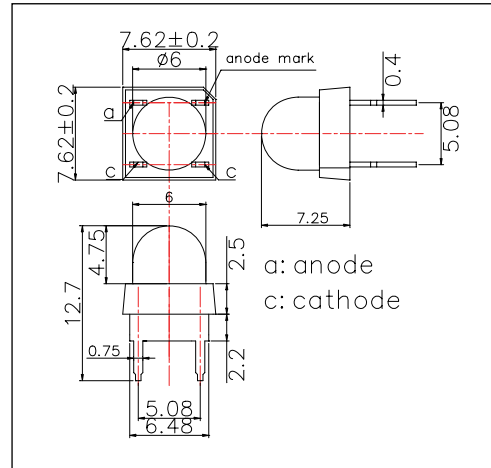
FL940-03-80
Super Flux Mold Type LED

FL940-03-80 is an AlGaAs LED mounted on a lead frame and molded with super beam lens. On forward bias it emits a band of visible light which peaks 940nm. These devices are intended to be operated at pulsed current of 4A under maximum 3.5V.

<Specifications>

1. Product Name: Super Flux Mold Type LED
2. Type Number: FL880-03-80
3. Chip:
 - Chip material: GaAlAs
 - Chip Dimension: 800um x 800um
 - Peak Wavelength: 880nm
4. Package
 - Type: Super Beam Type LED
 - Resin Material: Epoxy Resin
 - Lead Frame: Silver Plated Copper

Outer Dimension (Unit:mm)



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	570	mW	Ta=25°C
Forward Current	IF	400	mA	Ta=25°C
Pulse Forward Current*	IFP	4000	mA	Ta=25°C
Reverse Voltage	VR	10	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +85	°C	
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature**	TSOL	260	°C	

* Duty=1% and Pulse Width=10us

** Soldering Condition must be completed within 3 seconds at 260°C

Electro-Optical Characteristics [Ta=25°C typ.]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=200mA		1.30	1.40	V
Pulsed Forward Voltage	VF	IFP=4A		2.7	3.5	V
Reverse Current	IR	VR=10V			10	uA
Radiated Power*	PO	IF=200mA	30.0	45.0		mW
Radiant Intensity**	IE	IF=200mA		135		mW/sr
Peak Wavelength	λP	IF=50mA	930	940	950	nm
Half Width	Δλ	IF=50mA		40		nm
Viewing Half Angle	θ1/2	IF=50mA		± 15		deg
Rise Time	tr	IF=50mA		1000		ns
Fall Time	tf	IF=50mA		500		ns

* Measured by Photodyne #500

** Measured by Tektronix J-6512

