Marubeni

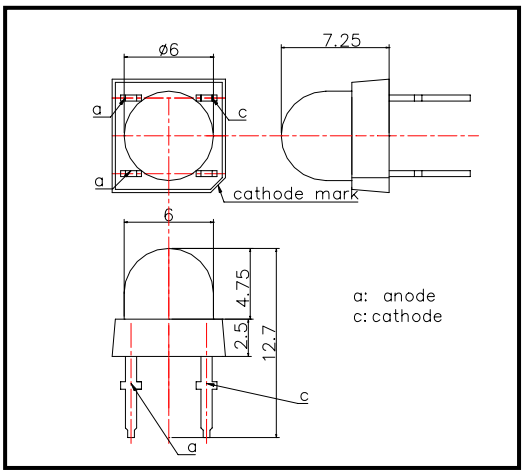
FL630W-21 Super Beam type LED

FL630W-21 is an InGaAlP LED mounted on a lead frame and molded with super beam lens. On forward bias, it emits a band of visible light which peaks 635nm.

♦Specifications

1) Product Name	Epoxy mold type LED
2) Type No.	FL630W-21
3) Chip	
(1) Chip Material	InGaAlP
(2) Peak Wavelength	635nm typ.
4) Package	
(1) Type	Super Beam type LED
(2) Resin Material	Epoxy Resin
(3) Lead Frame	Soldered

♦Outer dimension (Unit: mm)



♦Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P_D	140	mW	Ta=25°C
Forward Current	I_F	50	mA	Ta=25°C
Reverse Voltage	V_R	5	V	Ta=25°C
Operating Temperature	T_{OPR}	-30 ~ +85	°C	
Storage Temperature	T_{STG}	-30 ~ +100	°C	
Soldering Temperature	T_{SOL}	260	°C	

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

♦Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F=20mA		2.2	2.6	V
Reverse Current	I_R	V_R=5V			10	uA
Total Radiated Power	P_O	I_F=20mA		8.0		mW
Brightness	I_V	I_F=20mA	5,000	10,000		mcd
Peak Wavelength	λ_P	I_F=20mA	625	635	645	nm
Half Width	$\Delta\lambda$	I_F=20mA		15		nm
Viewing Half Angle	$\theta_{1/2}$	I_F=20mA		±8		deg.

‡Brightness is measured byTektronix J-16.
‡Total Radiated Power is measured by Photodyne #500

Marubeni America Corporation

3945 Freedom Circle, Suite 1000, Santa Clara, CA 95054

408-330-0650 (Ext. 323), 408-330-0655 (Fax), sales@tech-led.com