

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







US-Lasers: 635nm-5mW - Red Laser Diode

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VISIBLE LASER DIODE DATA SHEET

ABSOLUTE MAXIMUM RATINGS - $(Tc=25 \text{ }^{\circ}\text{C})$

TECHNICAL DATA for LASER DIODE • Index Guided MQW Structure • Wavelength: 635nm (Typ.) • Optical Power: 5mW CW • Threshold Current: 40mA (Typ.) • Standard Package: 5.6mm Visible laser diode light output 635nm				1 laser cathode 2 common case 3 monitor diode anode Pin Out Diagram - Style A		
Optical power output	5mW CW					
Package Type	5.6mm					
Built-in photo diode for monitoring la	aser output					
Items	ems Symbols			Values		Unit
Optical output power				5		mW
Laser diode reverse voltage			VLDR	2		V
Photo diode reverse voltage			VPDR	30		V
Operating temperature			Topr	-10 ~ +40		°C
Storage temperature	rage temperature Tstg			-40 ~ +85 °C		
OPTICAL and ELECTRICA	L CHARACTERIST	TICS - (Tc=25 °C)			
Items	Symbols	Min.	Тур.	Max.	Unit	Test Condition
Optical output power	Po	-	5	-	mW	-
Threshold current	Ith	30	40	60	mA	-
Operating current	Iop	40	50	70	mA	Po=5mW
Operating voltage	Vop	2.0	2.4	2.7	V	Po=5mW
Lasing wavelength	8 D	630	635	645	nm	Po=5mW
Beam divergence	θF	8	10	11	deg	Po=5mW
Beam divergence	θz	25	31	40	deg	Po=5mW
Slope Efficiency (mW/mA)	0	0.4	0.5	0.7		-
Monitor current	Im	10	50	90	μΑ	Po=5mW,Vr=5V
Astigmatism	As	-	11	-	μm	Po=5mW
MTTF			3000-5,000 hrs.			Po=5mW,NA=0.4
Emitter Distance to Cap Lens Emitter Size	0.3mm 1 x 4 Microns					

Index Guided

Structure