



# Sanyo Laser Diode Range



## Laser Diodes

Sanyo currently markets AlGaAs infrared laser diodes in the 780-870 nm wavelength. They are suitable for a wide range of applications including CD's, DVD's, bar code scanners, laser pointers, printers, multimedia and other future optical equipment



## Summary of Features (Typ.)

Part No.	Main Feature	Absolute Maximum Ratings			Electro-Optical Characteristics						Package Dimensions Type	Pin Connection Type	Application
		Light Output	Operating Temperature	Ratings	Threshold Current	Operating Current*	Lasing Wavelength*	Monitor Current*	Beam Divergence				
		Po mW	Topr °C	Po mW	Ith mA	Iop mA	λ nm	I <sub>m</sub> mA	θ <sub>  </sub> deg.	θ <sub>⊥</sub> deg.			
DL-3038-011	40°C at 5mW	5	-10~+40	5	40	55		0.20	8.0	35	C	I	LP
DL-3038-023	40°C at 3mW	3	-10~+40	3	20	25		0.15	8.0	35	C	I	LP
DL-3038-033	50°C at 5mW	5	-10~+50	5	30	40		0.20	8.0	35	C	I	BS,LM
DL-3038-041	60°C at 5mW	5	-10~+60	5	40	55		0.20	8.0	35	C	I	BS,LM
DL-4038-021	40°C at 10mW	10	-10~+40	10	35	55		0.15	8.0	30	C	I	LM
DL-4038-025	40°C at 20mW	20	-10~+40	20	40	80	635	0.03	7.5	25	C	I	LM,LBP
DL-3148-011	40°C at 5mW	5	-10~+40	5	40	55		0.20	8.0	35	A	I	LP
DL-3148-021	40°C at 3mW	3	-10~+40	3	30	40		0.10	8.0	35	A	I	LP
DL-3148-023	40°C at 3mW	3	-10~+40	3	20	25		0.15	8.0	35	A	I	LP
DL-3148-033	50°C at 5mW	5	-10~+50	5	40	55		0.15	8.0	35	A	I	BS
DL-3147-021	40°C at 5mW	5	-10~+40	5	35	50		0.30	7.5	30	A	I	LP,LM
DL-3147-041	60°C at 5mW	5	-10~+60	5	45	60	645	0.15	7.5	30	A	I	BS
DL-3147-141,241	60°C at 5mW	7	-10~+60	5	45	60		0.15	7.5	30	A	II, III	DVD
DL-3147-161,261	70°C at 5mW	7	-10~+70	5	45	60		0.15	7.5	30	A	II, III	DVD
DL-3039-011	60°C at 5mW	5	-10~+60	5	30	45		1.20	8.0	33	C	I	BS,LBP
DL-3149-054	60°C at 5mW	5	-10~+60	5	30	45	670	1.20	8.0	33	A	I	BS,LBP
DL-3149-055	50°C at 5mW	5	-10~+50	5	30	45		1.20	8.0	33	A	I	LP,BS
DL-3149-056	50°C at 5mW	5	-10~+50	3	35	45		0.70	8.0	33	A	I	LP
DL-4039-011	50°C at 10mW	10	-10~+50	10	40	60	675	0.15	8.0	30	C	I	BS,LBP
DL-3149-070	60°C self pulsation	5	-10~+60	3	40	50	685	0.15	8.5	37	A	I	OD,ME
DL-3144-001	Low droop	5	-10~+60	3	40	50	780	0.80	10	25	A	I	LBP
DL-3144-005	Low droop	8	-10~+60	5	30	55	780	3.50	9.0	25	A	I	LBP
DL-3150-101,102	Frame laser	5	-10~+60	3	35	45	790	0.20	10	35	D	II	CD,CD-ROM
DL-4034-151	50°C at 15mW	20	-10~+50	15	40	80	780	0.50	10	25	B	II	LBP
DL-4140-001	50°C at 20mW	25	-10~+50	20	30	60	785	0.75	8.0	25	A	I	LBP
DL-6140-201	60°C at 50mW	55	-10~+60	50	30	110	785	0.15	8.0	22	A	III	CD-R
DL-7140-201	60°C at 70mW	75	-10~+70	70	30	100	785	0.15	8.0	17	A	III	CD-R

DL-7032-001	50°C at 100mW	100	-10~+50	100	50	150	830	0.20	7.0	17	B	I	
DL-8032-001	50°C at 150mW	150	-10~+50	100	50	200	830	0.30	7.0	17	B	I	

\* at the power of ratings

**Examples of applications**

LP: Laser Pointer, LBP: Laser Beam Printers, BS: Bar-code Scanner, LM: Line Marker, ME: Measuring Equipment  
 CD: Compact Disc, CD-ROM, CD-RD, DVD: Digital Video Disc, OD: Optical Disc memory.

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