

Laser diode product tables

● For compact discs (CD)

Product name	Absolute maximum ratings			Electrical and optical characteristics (Tc=25°C)								Condition	Page
	V _R (V)	P _O (mW)	T _{oprMax.} (°C)	V _F (V)	I _{th} (mA)	I _{op} (mA)	I _m (mA)	λ _p (nm)	θ _⊥ (deg)	θ _∥ (deg)	S/N _{Min.} (dB)	P _O (mW)	
RLD-78MA	2	5	60	1.9	35	45	0.2	785	37	11	60	3	283
RLD-78MAT1	2	5	80	1.9	35	45	0.2	785	37	11	60	3	286
RLD-78MAT4S	2	4	75	1.9	20	25	0.1	785	37	11	60	2.5	289

● For video discs (VD, LD)

Product name	Absolute maximum ratings			Electrical and optical characteristics (Tc=25°C)								Condition	Page
	V _R (V)	P _O (mW)	T _{oprMax.} (°C)	V _F (V)	I _{th} (mA)	I _{op} (mA)	I _m (mA)	λ _p (nm)	θ _⊥ (deg)	θ _∥ (deg)	S/N _{Min.} (dB)	P _O (mW)	
RLD-78MV	2	5	60	1.9	45	55	0.2	785	37	11	85	3	292

● For sensors and general measurement instruments

Product name	Absolute maximum ratings			Electrical and optical characteristics (Tc=25°C)								Condition	Page
	V _R (V)	P _O (mW)	T _{oprMax.} (°C)	V _F (V)	I _{th} (mA)	I _{op} (mA)	I _m (mA)	λ _p (nm)	θ _⊥ (deg)	θ _∥ (deg)	S/N _{Min.} (dB)	P _O (mW)	
RLD-78MC	2	5	60	1.9	35	45	0.2	785	37	11	—	3	295

● For laser beam printers (LBP)

Product name	Absolute maximum ratings			Electrical and optical characteristics (Tc=25°C, P _O =3mW)								Condition	Page
	V _R (V)	P _O (mW)	T _{oprMax.} (°C)	V _F (V)	I _{th} (mA)	I _{op} (mA)	I _m (mA)	λ _p (nm)	θ _⊥ (deg)	θ _∥ (deg)	Droop (%)	P _O (mW)	
RLD-78PP-B	2	5	60	1.9	25	45	0.55	785	30	11	5	3	297
RLD-78NP-D	2	5	60	1.9	25	45	0.55	785	30	11	5	3	297
RLD-78NP10-B	2	10	60	1.9	25	45	0.4	785	30	11	5	6	300

Note: Electrical and optical characteristics are typical values unless otherwise indicated.

● For optical LANs

Product name	Absolute maximum ratings			Electrical and optical characteristics (T _c =25°C)								Condition	Page
	V _R (V)	P _O (mW)	T _{oprMax.} (°C)	V _F (V)	I _{th} (mA)	I _{op} (mA)	I _m (mA)	λ _p (nm)	θ _⊥ (deg)	θ _∥ (deg)	P _O (mW)		
RLD-78MIT	2	5	80	1.9	35	45	0.2	785	37	11	3	303	
RLD-78NIT	2	5	60	1.9	30	40	0.2	785	37	11	3	303	
RLD-78PIT	2	5	80	1.9	35	45	0.2	785	37	11	3	303	

● For MD play back

Product name	Absolute maximum ratings			Electrical and optical characteristics (T _c =25°C)									Condition	Page
	V _R (V)	P _O (mW)	T _{oprMax.} (°C)	V _F (V)	I _{th} (mA)	I _{op} (mA)	I _m (mA)	λ _p (nm)	θ _⊥ (deg)	θ _∥ (deg)	S/N _{Min.} (dB)	P _O (mW)		
RLD-78MD	2	10	60	1.9	35	45	0.1	785	37	11	60	3	306	

● For DVD

Product name	Absolute maximum ratings			Electrical and optical characteristics (T _c =25°C)								Condition	Page
	V _R (V)	P _O (mW)	T _{oprMax.} (°C)	V _F (V)	I _{th} (mA)	I _{op} (mA)	I _m (mA)	λ _p (nm)	θ _⊥ (deg)	θ _∥ (deg)	P _O (mW)		
RLD-65MC	2	7	70	2.3	40	50	0.20	655	27	8	5	309	
RLD-65PC	2	7	70	2.3	40	50	0.20	655	27	8	5	309	

Note: Electrical and optical characteristics are typical values unless otherwise indicated.