

OPTOELECTRONIC DEVICES & MODULES

LIGHT EMITTING DIODE

TYPE	DESCRIPTION	MAXIMUM RATING			ELECTRO-OPTICAL CHARACTERISTIC						NOTE	PKG
		PD [mW]	IF [mA]	VR [V]	λ_p [nm]	VF Typ. [V]	IF Typ. [mA]	θ_e Typ. [mW]	IF Typ. [mA]	Q Typ. [deg]		
NJL1104B	GaAs Infrared LED	150	100	6	940	1.2	50	2.8	50	30	High input current type.	A
NJL1110B		150	100	6	940	1.2	50	1.7	50	20		A
NJL1112B		225	150	6	940	1.3	100	3.5	50	20		A
NJL1120B	GaAlAs Infrared LED	170	100	6	900	1.3	50	4.9	50	20	ϕ 4mm narrow beam. Flat glass.	A
NJL1121B		170	100	6	900	1.3	50	6.5	50	15		A
NJL1122B		170	100	6	900	1.3	50	7	50	10		A
NJL1120F		170	100	6	900	1.3	50	4.9	50	70		C
NJL1121F		170	100	6	900	1.3	50	6.5	50	70		C

PHOTO DIODE

TYPE	DESCRIPTION	MAXIMUM RATING			ELECTRO-OPTICAL CHARACTERISTIC						NOTE	PKG
		PD [mW]	IF [mA]	VR [V]	λ_p [nm]	IL Type. [μ A]	Ee[mW/cm ²]	ID Max VR[V]	θ Typ. [deg]			
NJL6103B	PIN Photo Diode	150	100	15	920	20	2	1.0	1	25		A
NJL611B		150	100	15	850	10	2	1.0	1	20		A
NJL612B		150	100	15	850	30	2	1.0	1	25		A

PHOTO TRANSISTOR

TYPE	DESCRIPTION	MAXIMUM RATING			ELECTRO-OPTICAL CHARACTERISTIC						NOTE	PKG
		Pc [mW]	VCEO [V]	IC [mA]	λ_p [nm]	IL Type. [mA]	VCE[V]	Ee[mW/cm ²]	ICEO Max. [nA]	VCE[V]		
NJL7112B	Photo Transistor	150	40	50	900	12	10	2	100	30		B
NJL7113B		150	25	20	900	4	10	0.5	100	20		B
NJL721B		150	40	50	740	2.5	10	2	100	30		B
NJL722B		150	8	50	740	5	10	2	200	30		B
NJL7260B	Photo Darlington Transistor	150	25	100	740	12.5	10	0.2	100	6		B
NJL811B	Photo Diode with Current Amplifier	150	40	50	900	4	10	2	100	6		B

PHOTO IC

TYPE	DESCRIPTION	MAXIMUM RATING			ELECTRO-OPTICAL CHARACTERISTIC						NOTE	PKG
		P tot [mW]	V cc [V]	I OL [mA]	V OL Max. [V]	EeHL Typ. [μ W/cm ²]	E eHL Typ. [μ S]	tp HL Typ. [μ S]	tp LH Typ. [μ S]	tr, tf Typ. [μ S]		
NJL3227B	Open Collector	150	16	50	0.4	150	75	1	2	0.1	Active Low. Active High. Active High.	B
NJL3228B	Digital Output	150	16	50	0.4	75	150	2	1	0.1		B
NJL3229B		150	16	50	0.4	50	60	10	10	0.1		B

PHOTO COUPLER

*UL Recognized.

TYPE	DESCRIPTION	MAXIMUM RATING			ELECTRO-OPTICAL CHARACTERISTIC						NOTE	PKG
		P tot [mW]	IF [mA]	VCEO [V]	CTR Min. [%]	CTR Max. [%]	IF Typ. [mA]	ICEO Max. [nA]	VCE[V]	V IO [Vrms] AC1min		
NJL5121D*	Transistor Output	250	70	35	30	300	10	50	6	4000		E
NJL5125D*	Darlington Transistor Output	200	70	35	300	-	1	100	5	4000		E
NJL5126D*	AC Input	300	$\pm$ 70	35	100	600	10	100	5	4000		E
NJL5151D*	Small package Transistor Output	200	70	35	40	480	5	100	10	4000	2 channel type 2 channel type 3 channel type 3 channel type High VCE type High VCE type High VCE type High VCE type High input current type.	F
NJL5151M*		200	70	35	40	480	5	100	10	4000		I
NJL5152D*		150/CH.	50	35	40	480	5	100	10	4000		G
NJL5152M*		150/CH.	50	35	40	480	5	100	10	4000		J
NJL5153D*		150/CH.	50	35	40	480	5	100	10	4000		H
NJL5153M*		150/CH.	50	35	40	480	5	100	10	4000		K
NJL5154D*		200	70	70	40	480	5	100	10	4000		F
NJL5154M*		200	70	70	40	480	5	100	10	4000		F
NJL5155D*		200	70	120	40	480	5	100	10	4000		I
NJL5155M*		200	70	120	40	480	5	100	10	4000		I
NJL5156M*		200	150	35	40	480	5	100	10	2		I
TYPE	DESCRIPTION	P tot [mW]	IF [mA]	Vcc [V]	VOL Max. [V]	I FHL Typ. [mA]	I FLH Typ. [mA]	tp HL Typ. [μ S]	tp LH Typ. [μ S]	V IO [Vrms] AC1min	NOTE	PKG
NJL5127D	Open Collector	170	50	16	0.4	1.1	0.8	1	2	3500	Active Low	E
NJL5128D	Digital Output	170	50	16	0.4	0.8	1.1	2	1	3500	Active High	E
NJL5131D		170	50	16	0.4	0.85	0.45	0.3	1	3500	Active Low	E

PACKAGE OUTLINE

