

Optoelectronic Products

IR Emitters and Detectors (Continued)

Matched Emitter-Detector Pairs

Type #	Description	Output Current		I _{CEO} (na)	BV _{CEO} (V)	Typical		V _{CE} (SAT) Max	Package
						TON (μs)	T _I (μs)		
H23A1	Photo Transistor Output	I _F = 30mA	1.5mA	100	30	8	50	0.4	321
H23A2		I _F = 30mA	1.0mA	100	30	8	50	0.4	321
H23B1	Photo Darlington Output	I _F = 10mA	7.5mA	100	30	45	250	1.0	321

Type #	Description	Turn On Current I _F (ON) Max	Hysteresis I _F (OFF)/I _F (ON)		Output Voltage Vol Max	Operating Voltage		Package*
			Min	Max		Min	Max	
H23L1	Schmitt Trigger Output	20mA	0.5	0.9	0.4V	4V	15V	321

Photon-Coupled Interrupter Modules

Type # +	Description	Output Current		I _{CEO} (nA)	BV _{CEO} (V)	Typical		V _{CE} (SAT) Max	Package*
						TON (μs)	t _f (μs)		
H21A1	Photo Transistor Output	I _F = 20mA	1.0mA	100	30	8	50	0.4	319
H21A2		I _F = 20mA	2.0mA	100	30	8	50	0.4	319
H21A3		I _F = 20mA	4.0mA	100	30	8	50	0.4	319
H21A4		I _F = 20mA	1.0mA	100	55	8	50	0.4	319
H21A5		I _F = 20mA	2.0mA	100	55	8	50	0.4	319
H21A6		I _F = 20mA	4.0mA	100	55	8	50	0.4	319
H22A1		I _F = 20mA	1.0mA	100	30	8	50	0.4	320
H22A2		I _F = 20mA	2.0mA	100	30	8	50	0.4	320
H22A3		I _F = 20mA	4.0mA	100	30	8	50	0.4	320
H22A4		I _F = 20mA	1.0mA	100	55	8	50	0.4	320
H22A5		I _F = 20mA	2.0mA	100	55	8	50	0.4	320
H22A6		I _F = 20mA	4.0	100	55	8	50	0.4	320
CNY28	I _F = 20mA	200μA	100	30	5	5	0.4	319	
CNY36	I _F = 20mA	200μA	100	30	5	5	0.4	320	
H21B1	Photo Darlington Output	I _F = 10mA	7.5mA	100	30	45	250	1.0	319
H21B2		I _F = 10mA	14mA	100	30	45	250	1.0	319
H21B3		I _F = 10mA	25mA	100	30	45	250	1.0	319
H21B4		I _F = 10mA	7.5mA	100	55	45	250	1.0	319
H21B5		I _F = 10mA	14mA	100	55	45	250	1.0	319
H21B6		I _F = 10mA	25mA	100	55	45	250	1.0	319
H22B1		I _F = 10mA	7.5mA	100	30	45	250	1.0	320
H22B2		I _F = 10mA	14mA	100	30	45	250	1.0	320
H22B3		I _F = 10mA	25mA	100	30	45	250	1.0	320
H22B4		I _F = 10mA	7.5mA	100	55	45	250	1.0	320
H22B5		I _F = 10mA	14mA	100	55	45	250	1.0	320
H22B6		I _F = 10mA	25mA	100	55	45	250	1.0	320
CNY29		I _F = 20mA	2.5mA	100	25	150	150	1.2	319

Type # +	Description	Turn On I _F (ON) Max	Hysteresis I _F (OFF)/I _F (ON) Ratio		Output Voltage Vol. Max	Operating Voltage Voltage		Package*
			Min	Max		Min	Max	
H21L1	Schmitt	30mA	0.5	0.9	0.4V	4V	15V	323
H21L2	Trigger	15mA	0.5	0.9	0.4V	4V	15V	323
H22L1	Output	30mA	0.5	0.9	0.4V	4V	15V	322
H22L2		15mA	0.5	0.9	0.4V	4V	15V	322

+ H21 and H22 interrupters: replace older less efficient designs significantly improve performance.

-Incorporate integral lenses.

* See Package Section

-Feature a strengthened housing with slot aperture to improve resolution.

-Block up to 55 volts.

-Minimize high detector-supply-voltage problems.

Functional Diagram Included In This Section