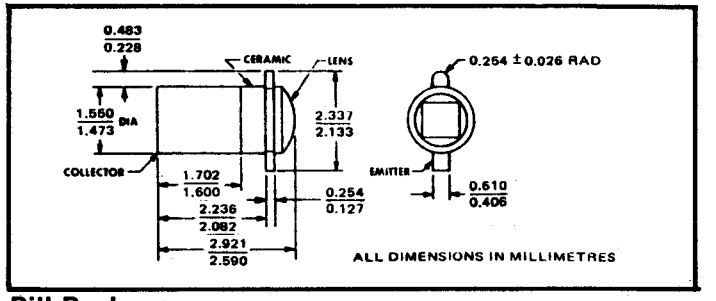
31 Optoelectronics

Light Emitters

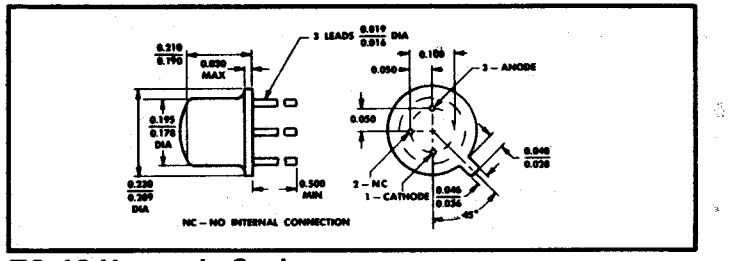
Device Type	Power Output min. mW @ IF mA	θHP typ	VF max. V @ IF mA	λp typ μm	Key Features
TIL23	0.4 @ 50	35°	1.5 @ 50	0.93	Pill package for mounting on double-sided printed circuit board
TIL24	1.0 @ 50	35°	1.5 @ 50	0.93	
TIL25	0.7 @ 50	35°	1.5 @ 50	0.94	
TIL31	3.3 @ 100	10°	1.75 @ 100	0.94	Hermetically sealed TO18 package
TIL33	2.5 @ 100	80°	1.75 @ 100	0.94	
TIL34	1,6 @ 100	10°	1.75 @ 100	0.94	
TIL32	0.5 @ 20	35°	1.6 @ 20	0.94	Low cost 3 mm plastic package
TIL38	6.0 @ 100	60°	1.9 @ 100	0.94	Low cost 5 mm plastic package



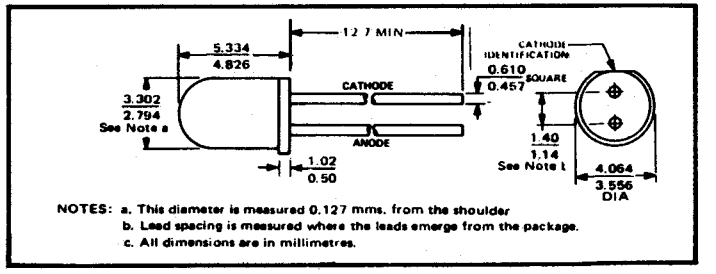
Pill Package

Light Sensors

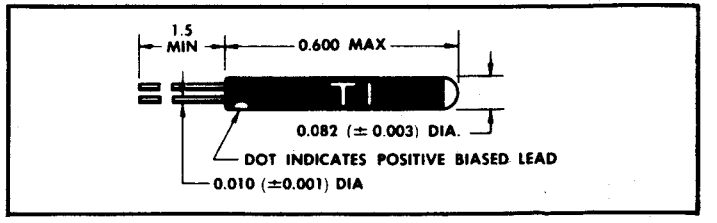
Device Type	Type	Light Current min. mA	Light Current max. mA @ V	Dark Current max. nA @ V	Power Diss mW	Key Features
LS600	Phototransistor	0.8	— @ 5	25 @ 30	50	Pill Package
LS602	Phototransistor	0.5	— @ 5	25 @ 30	50	Pill package designed for mounting on double-sided printed circuit board
LS611	Phototransistor	0.5	2 @ 5	25 @ 30	50	
LS612	Phototransistor	1	3 @ 5	25 @ 30	50	
LS613	Phototransistor	2	4 @ 5	25 @ 30	50	
LS614	Phototransistor	3	5 @ 5	25 @ 30	50	
LS615	Phototransistor	4	6 @ 5	25 @ 30	50	
LS616	Phototransistor	5	7 @ 5	25 @ 30	50	
LS617	Phototransistor	6	8 @ 5	25 @ 30	50	
LS618	Phototransistor	7	9 @ 5	25 @ 30	50	
LS619	Phototransistor	8	— @ 5	25 @ 30	50	
TIL63	Phototransistor	0.4	— @ 5	25 @ 30	50	
TIL64	Phototransistor	0.4	1.6 @ 5	25 @ 30	50	Low-cost header with epoxy lens. Operating temperature range—40°C to 80°C
TIL65	Phototransistor	1	4 @ 5	25 @ 30	50	
TIL66	Phototransistor	2.5	10 @ 5	25 @ 30	50	
TIL67	Phototransistor	6	— @ 5	25 @ 30	50	
TIL78	Phototransistor	1	— @ 5	25 @ 30	50	Low-cost plastic package
TIL81	As Phototransistor	5	— @ 5	100 @ 10	250	TO-18 package with narrow field of view
	As Photodiode	170* μA typ	— @ 0–50	10 @ 30	250	
TIL99	As Phototransistor	1	— @ 5	100 @ 10	250	Similar to TIL81 except flat lens
	As Photodiode	40* μA typ	— @ 0–50	10 @ 10	250	
TIL100	Photodiode	6 A/W	— 50	100 @ 50		Low-cost "side looker" package
LS400	Phototransistor	1	— @ 5	25 @ 30	50	Glass, hermetically sealed
TIL401	Phototransistor	0.5	3 @ 5	25 @ 30	50	
TIL402	Phototransistor	2	6 @ 5	25 @ 30	50	
TIL403	Phototransistor	5	10 @ 5	25 @ 30	50	
TIL404	Phototransistor	8	16 @ 5	25 @ 30	50	
TIL405	Phototransistor	10	20 @ 5	25 @ 30	50	



TO-18 Hermetic Seal



Low Cost Plastic Package



Hermetic Seal Glass Package

ALL DIMENSIONS IN INCHES