

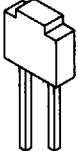


## Plastic Encapsulated Sensors

Saturation voltage values are measured at approximately 25% of the minimum specified light current for each device; typical values are 0.3 V for phototransistors, and 1.0 V for photodarlington.

## ORDER AND SPECIFICATION GUIDE

Package Style	Part Number	Sensor Type Photo-	Acceptance Angle (degrees) Note 1	Light Current		units	V <sub>CE</sub> Note 2	H Note 3	See Note	
				min.	max.					
 Drawing 23 Page 41	SDP8105-1	-darlington	40	0.5		mA	5.0	0.25	4	
	SDP8405-1	-transistor	40	1.00		mA	5.0	5.0	5	
	SDP8405-2	-transistor	40	7.00	14.00	mA	5.0	5.0	5	
	SDP8405-3	-transistor	40	12.00	14.00	mA	5.0	5.0	5	
	SDP8405-11	-transistor	40	0.16		mA	5.0	0.25	4	
	SDP8405-12	-transistor	40	0.16	0.46	mA	5.0	0.25	4	
	SDP8405-13	-transistor	40	0.32	0.92	mA	5.0	0.25	4	
	SDP8405-14	-transistor	40	0.64	1.85	mA	5.0	0.25	4	
	SDP8425-1	-transistor	40	1.00		mA	5.0	5.0	5	
	SDP8425-2	-transistor	40	7.00		mA	5.0	5.0	5	
	 Drawing 24 Page 41	SDP8106-1	-darlington	50	1.00		mA	5.0	1.0	4
		SDP8406-1	-transistor	50	0.15	1.90	mA	5.0	1.0	4
		SDP8406-2	-transistor	50	1.80	3.60	mA	5.0	1.0	4
		SDP8406-3	-transistor	50	3.40	6.50	mA	5.0	1.0	4
SDP8406-4		-transistor	50	6.40	12.0	mA	5.0	1.0	4	
SDP8426-1		-transistor	50	0.15		mA	5.0	1.0	4	
SDP8426-2		-transistor	50	1.80		mA	5.0	1.0	4	
 Drawing 25 Page 42	SDP8407-1	-transistor	135	0.10		mA	5.0	1.0	4	

## NOTES:

1. Acceptance angle - total included angle between half-sensitivity points measured with a point source of radiation.
2. Bias level is expressed in volts.
3. Value of radiation intensity (H) is measured in mW/cm<sup>2</sup>; source type is determined from notes 4 and 5.
4. Monochromatic IRED operating at 935 nm.
5. Unfiltered, linear-filament tungsten bulb operating at T<sub>c</sub> = 2870°K.