

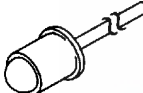




Sensors Hermetic

Saturation voltages 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 photodarlingtons.

ORDER AND SPECIFICATION GUIDE

Package Style	Part Number	Sensor Type Photo-	Acceptance Angle (degrees) Note 1	Light Current		units	Bias Note 2	H Note 3
				min.	max.			
	SD1410-1	-darlington	24	0.6		mA	5.0	0.2
	SD1410-2	-darlington	24	2.0		mA	5.0	0.2
	SD1410-3	-darlington	24	4.0		mA	5.0	0.2
	SD1410-4	-darlington	24	8.0		mA	5.0	0.2
Drawing 9 Page 40								
	SD1420-2	-diode	24	5.0		μA	20.0	5.0
Drawing 10 Page 40								
	SD1440-1	-transistor	24	0.7		mA	5.0	5.0
	SD1440-2	-transistor	24	1.5		mA	5.0	5.0
	SD1440-3	-transistor	24	3.0		mA	5.0	5.0
	SD1440-4	-transistor	24	6.0		mA	5.0	5.0
	SD1410-1L	-darlington	24	0.6		mA	5.0	0.2
	SD1410-2L	-darlington	24	2.0		mA	5.0	0.2
	SD1410-3L	-darlington	24	4.0		mA	5.0	0.2
	SD1410-4L	-darlington	24	8.0		mA	5.0	0.2
Drawing 11 Page 40								
	SD1440-1L	-transistor	24	0.7		mA	5.0	5.0
	SD1440-2L	-transistor	24	1.5		mA	5.0	5.0
	SD1440-3L	-transistor	24	3.0		mA	5.0	5.0
	SD1440-4L	-transistor	24	6.0		mA	5.0	5.0
Drawing 12 Page 40								
	SD1420-2L	-diode	24	5.0		μA	20.0	5.0
Drawing 13 Page 40								

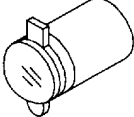
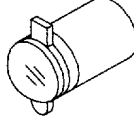
NOTES:

1. Acceptance angle - total included angle between half-sensitivity points assuming a point radiation source.
2. Bias level is expressed in volts; V_{CE} for phototransistors and photodarlingtons, V_R for photodiodes.
3. Irradiance, H, is measured in units of mW/cm^2 . Source is a tungsten lamp operating at 2870°K color temperature.

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ORDER AND SPECIFICATION GUIDE

Package Style	Part Number	Sensor Type Photo-	Acceptance Angle (degrees) Note 1	Light Current		units	Bias Note 2	H Note 3
				min.	max.			
 Drawing 14 Page 40	SD2410-1	-darlington	48	1.0		mA	5.0	1.0
	SD2410-2	-darlington	48	3.0		mA	5.0	1.0
	SD2410-3	-darlington	48	6.0		mA	5.0	1.0
	SD2440-1	-transistor	48	0.5		mA	5.0	20.0
	SD2440-2	-transistor	48	2.0		mA	5.0	20.0
	SD2440-3	-transistor	48	4.0		mA	5.0	20.0
 Drawing 15 Page 40	SD2440-4	-transistor	48	7.0		mA	5.0	20.0
	SD2420-2	-diode	48	7.0		μA	20.0	20.0

NOTES:

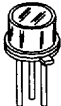
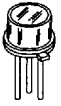
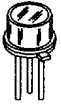
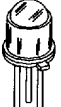
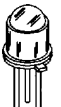
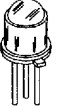
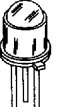
1. Acceptance angle - total included angle between half-sensitivity points assuming a point radiation source.
2. Bias level is expressed in volts; V_{CE} for phototransistors and photodarlingtons, V_R for photodiodes.
3. Irradiance, H, is measured in units of mW/cm^2 . Source is a tungsten lamp operating at 2870°K color temperature.



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ORDER AND SPECIFICATION GUIDE

Package Style	Part Number	Sensor Type Photo-	Acceptance Angle (degrees) Note 1	Light Current		Bias Note 2	H	See Note	
				min.	max. units				
	SD3410-1	-darlington	90	0.6	mA	5.0	2.0	3	
	SD3410-2	-darlington	90	2.0	mA	5.0	2.0	3	
	SD3410-3	-darlington	90	4.0	mA	5.0	2.0	3	
	SD3410-4	-darlington	90	8.0	mA	5.0	2.0	3	
Drawing 16, Page 40									
	SD3421-2	PIN -diode	90	10.0	μA	20.0	5.0	3	
Drawing 17, Page 41									
	SD3443-1	-transistor	90	0.5	mA	5.0	5.0	3	
	SD3443-2	-transistor	90	1.0	mA	5.0	5.0	3	
	SD3443-3	-transistor	90	2.0	mA	5.0	5.0	3	
Drawing 18, Page 41									
	SD5410-1	-darlington	6	2.0	mA	5.0	0.2	3	
	SD5410-2	-darlington	6	4.0	mA	5.0	0.2	3	
	SD5410-3	-darlington	6	8.0	mA	5.0	0.2	3	
Drawing 19, Page 41									
	SD5421-2	PIN -diode	18	40.0	μA	20.0	5.0	3	
Drawing 20, Page 41									
	SD5443-1	-transistor	18	1.0	mA	5.0	5.0	3	
	SD5443-2	-transistor	18	4.0	mA	5.0	5.0	3	
	SD5443-3	-transistor	18	8.0	mA	5.0	5.0	3	
	SD5443-4	-transistor	18	16.0	mA	5.0	5.0	3	
Drawing 21, Page 41									
	SD5491-1	-transistor	14	0.5	mA	5.0	1.5	4	
	SD5491-2	-transistor	14	0.5	3.0 mA	5.0	1.5	4	
	SD5491-3	-transistor	14	2.0	5.0 mA	5.0	1.5	4	
	SD5491-4	-transistor	14	4.0	8.0 mA	5.0	1.5	4	
	SD5491-5	-transistor	14	7.0	22.0 mA	5.0	1.5	4	
	SD5491-6	-transistor	14	15.0	mA	5.0	1.5	4	
Drawing 22, Page 41									

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3. Irradiance, H, is measured in units of mW/cm^2 . Source is a tungsten lamp operating at 2870°K color temperature.
4. Irradiance, H, is measured in units of mW/cm^2 . Source is a monochromatic IRED operating at 935 nm.