

LED's

(INFRARED)

Type	Output power P_o (mW)		Specified at forward current I_f (mA)	Beam angle ϕ (degrees) typ.	Forward drop at V_f (volts)		Specified forward current I_f (mA)	Reverse breakdown at $I_R = 10 \mu A$ V_R (volts) min.	Radiation rise time t_r (μS) typ.	Peak wavelength λ (nm) typ.	Maximum forward continuous current I_f (mA) $T_c = 25^\circ C$	Package style [See page 8 for outline dimensions]
	min.	typ.			typ.	max.						
SE 1450-1*	0.20		50	12	1.3	1.5	50	2	0.7	930	100	12 13 *
SE 1450-2*	0.35	0.50	50	12	1.3	1.5	50	2	0.7	930	100	
SE 1450-3*	0.70		50	12	1.3	1.5	50	2	0.7	930	100	
SE 1450-4*	1.00		50	12	1.3	1.5	50	2	0.7	930	100	
SE 2460-1	0.27		50	18	1.3	1.5	50	2	0.7	930	100	15
SE 2460-2	0.40		50	18	1.3	1.5	50	2	0.7	930	100	
SE 2460-3	1.0		50	18	1.3	1.5	50	2	0.7	930	100	
SE 3453-1	1.3	1.9	100	80	1.3	1.5	100	2	1.0	930	500	16 **
SE 3453-2	2.4	2.9	100	80	1.3	1.5	100	2	1.0	930	500	
SE 3453-3	3.2	3.7	100	80	1.3	1.5	100	2	1.0	930	500	
SE 3453-4	4.8	5.5	100	80	1.3	1.5	100	2	1.0	930	500	
SE 3455-1	2.0	2.7	100	90	1.3	1.5	100	2	0.7	930	100	16 **
SE 3455-2	3.5	4.2	100	90	1.3	1.5	100	2	0.7	930	100	
SE 3455-3	4.8	5.5	100	90	1.3	1.5	100	2	0.7	930	100	
SE 3455-4	5.4	6.0	100	90	1.3	1.5	100	2	0.7	930	100	
SE 5453-1	1.0	1.5	100	30	1.3	1.5	100	2	1.0	930	500	17 **
SE 5453-2	1.9	2.3	100	30	1.3	1.5	100	2	1.0	930	500	
SE 5453-3	2.5	2.9	100	30	1.3	1.5	100	2	1.0	930	500	
SE 5453-4	3.8	4.5	100	30	1.3	1.5	100	2	1.0	930	500	
SE 5455-1	2.0	2.7	100	20	1.3	1.5	100	2	0.7	930	100	17 **
SE 5455-2	3.5	4.2	100	20	1.3	1.5	100	2	0.7	930	100	
SE 5455-3	4.8	5.5	100	20	1.3	1.5	100	2	0.7	930	100	
SE 5455-4	5.4	6.0	100	20	1.3	1.5	100	2	0.7	930	100	
SEP 8502-1	.5*	1.2	20	30	1.2	1.6	20	3	0.6	930	40	18
SEP 8503-1	.5*	1.2	20	40	1.2	1.6	20	3	0.6	930	100	20
SEP 8506-1	.5*	1.2	20	25	1.2	1.6	20	3	0.6	930	40	19

*Specify -1L, -2L, -3L or -4L for package 13. **Recessed chip, two leaded case.

***Output power test scheme has been revised. Call (214) 234-4271 for detailed data sheet specifications.

NOTES: • Storage temperature: (Hermetic) $-65^\circ C$ to $+125^\circ C$, (Plastic) $-40^\circ C$ to $+85^\circ C$.
• Operating temperature: (Hermetic) $-65^\circ C$ to $+125^\circ C$, (Plastic) $-40^\circ C$ to $+80^\circ C$.

Photodiodes

(SILICON)

Type	Light current ($V_R = 20 V$) I_L (μA)		Specified irradiance H [$\frac{mW}{cm^2}$]	Dark current ($V_R = 20 V, H = 0$) I_D (nA) max.	Reverse breakdown voltage ($I_R = 10 \mu A$) BV_R (volts) min.	Light current rise time t_r (μs) typ.	Angular response ϕ (degrees) typ.	Spectral response diagram	Package style [See page 8 for outline dimensions]
	min.	typ.							
SD 1420-2*	5	6	5	5	50	50	12	Diagram 3	12 13 *
SD 2420-2	7	10	20	5	50	50	24	Diagram 3	14
SD 3420-2	0.7	0.8	5	5	50	50	45	Diagram 3	16
SD 3421-2	10	15	5	20	75	5 max.	45	Diagram 4	16
SD 3422-2	10	15	5	20	30	50	45	Diagram 3	
SD 5420-2	20	25	5	5	50	50	3	Diagram 3	17
SD 5421-2	40	60	5	20	75	5 max.	9	Diagram 4	
SD 5422-2	40	60	5	20	30	50	9	Diagram 3	

*Specify -2L for package 13.

NOTES: • Storage temperature: (Hermetic) $-65^\circ C$ to $+125^\circ C$.
• Operating temperature: (Hermetic) $-65^\circ C$ to $+125^\circ C$.

See page 9 for component photographs and spectral response characteristics.

Spectral Responsivity

Standard Opto Components

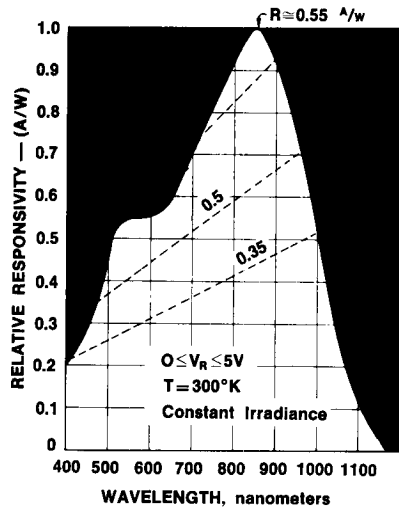


Diagram 3

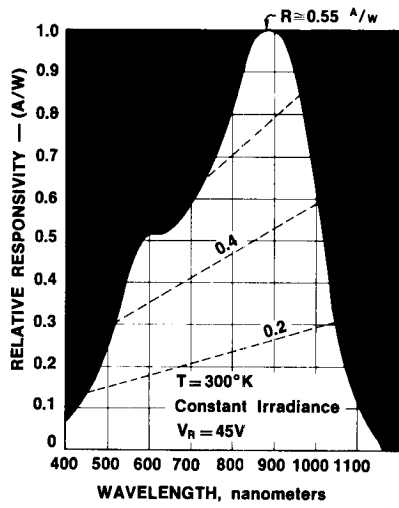


Diagram 4

