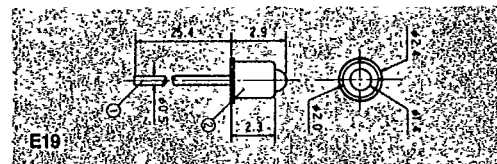
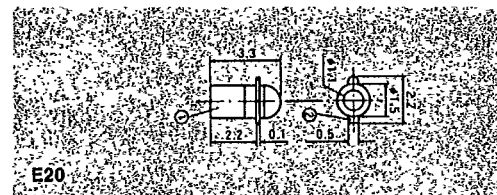


Coaxial Package



Pill Package



① Anode ② Cathode

Electro-Optical Characteristics (Ta = 25°C)

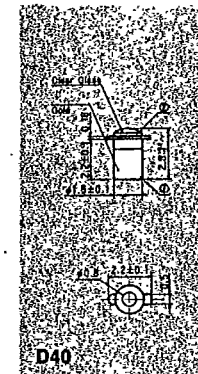
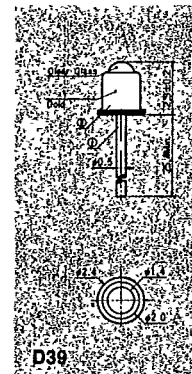
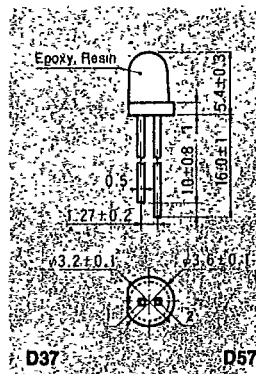
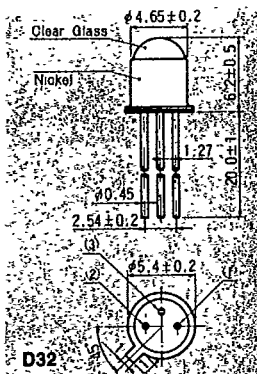
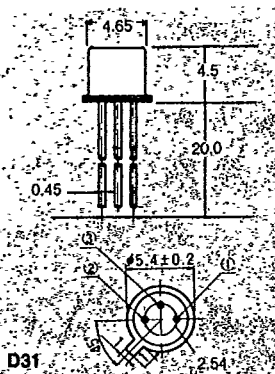
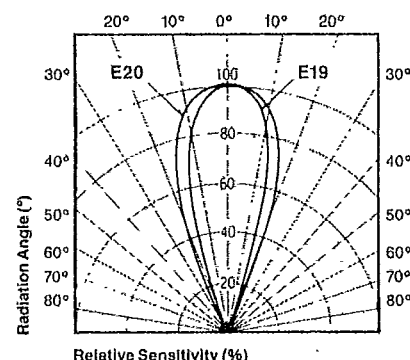
Line No.	LED No.	Radiation Output at 50mA		Forward Voltage at 50mA		Peak Wave Length at 50mA
		Minimum	Typical	Typical	Maximum	
Infrared 1	E19	.35mW	0.7mW	1.25V	1.5V	940nm
Infrared 2	E20	1.0mW	—	1.25V	1.5V	940nm

Absolute Maximum Ratings (Ta = 25°C)

Power dissipation	100mW
Continuous forward current	100mA
Pulsed forward current*	1A
Reverse voltage**	6V
Operational temperature	-45°C - 100°C
Storage temperature	-55°C - 100°C
Spectral bandwidth at 50%	50nm

*tw = 100 μs, T = 10 ms **IR = 10 μA

Radiation Pattern



① Collector ② Emitter ③ Base

Phototransistors

Type No.	Absolute Maximum Ratings			Icel		Vce (V)	Ev (Lux)	Iceo (μA)	Vce (V)	(deg) Typ.	(nm) Typ	(nm) Typ.
	Vceo (V)	Pc (mW)	Topr (°C)	(mA) Min.	(mA) Max.							
D31	40	250	-35~+125	1.8	—	5	1,000	1.0	10	±50	800	500~1,000
D32	40	100	-35~+125	8.0	17	10	500	1.0	10	±18	850	500~1,000
D37	40	75	-20~+ 65	1.0	—	3	1,000	0.2	10	±18	790	500~ 950
D39	50	100	-45~+125	0.7	—	5	1,000	1.0	30	±12	830	500~1,000
D40	50	100	-45~+125	0.5	—	5	1,000	1.0	30	±24	830	500~1,000

Photodarlington

Type No.	Absolute Maximum Ratings					Icel		Iceo				
	Vceo	Pc	Topr	(mA)	(mA)	Vce	Ev	(μA)	Vce	(deg)	(nm)	(nm)
	(V)	(mW)	(°C)	Min.	Max.	(V)	(Lux)	Max.	(V)	Typ.	Typ.	Typ.
D57	25	150	-20~ + 65	5	—	5	200	1.0	10	± 18	830	500~1,000