

CENTRONIC

TECHNICAL DATA SHEET

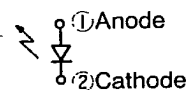
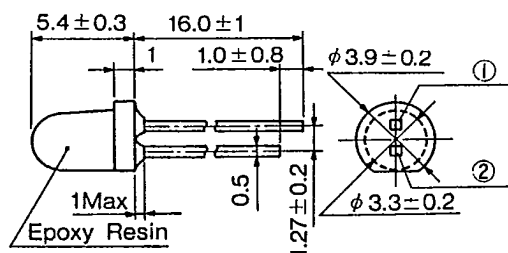
CT-7L

SILICON PHOTOTRANSISTOR

The CT-7L is a low cost, high sensitivity NPN silicon phototransistor mounted in a clear plastic package. With a built-in lens this small phototransistor permits narrow angular response.

FEATURES

- Compact (3.3mm dia.)
- Narrow angular response
- Low cost

DIMENSIONS (Unit:mm)**MAXIMUM RATINGS (Ta=25°C)**

ITEM	SYMBOL	RATING	UNIT
C-E Voltage	V _{ceo}	20	V
E-C Voltage	V _{eco}	5	V
Collector current	I _c	20	mA
Collector power dissipation	P _c	75	mW
Operating temp.	T _{opr.}	-20~+80	°C
Storage temp.	T _{stg.}	-20~+80	°C
Soldering temp. *1	T _{sol.}	240	°C

*1. 2mm t=5sec.

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

ITEM	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Collector dark current	I _{ceo}	V _{ceo} =10V		1	100	nA
Light current	I _L	V _{ce} =3V, 1,000Lux *2	0.5	5.0	20	mA
C-E saturation Voltage	V _{ce(sat)}	I _c =0.2mA, 2,000Lux *2		0.15	0.4	V
Switching speeds	Rise Time	V _{cc} =10V I _c =1mA R _L =100Ω		2.5		μsec.
	Fall Time			3.8		μsec.
Spectral sensitivity	λ		480~1,000			nm
Peak wavelength	λ _p			800		nm
Half angle	Δθ			±15		deg.

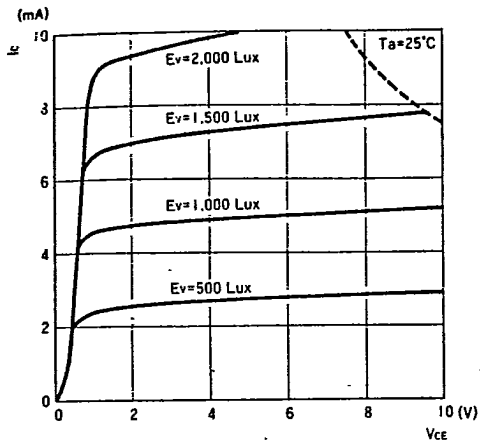
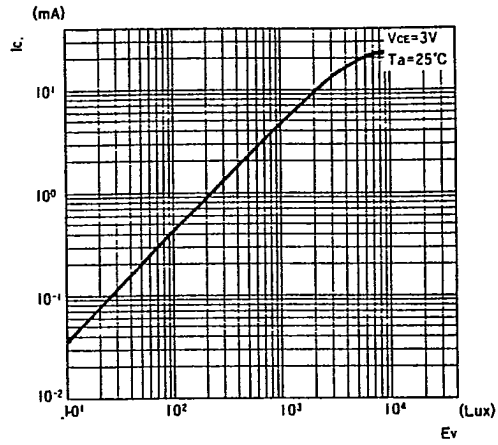
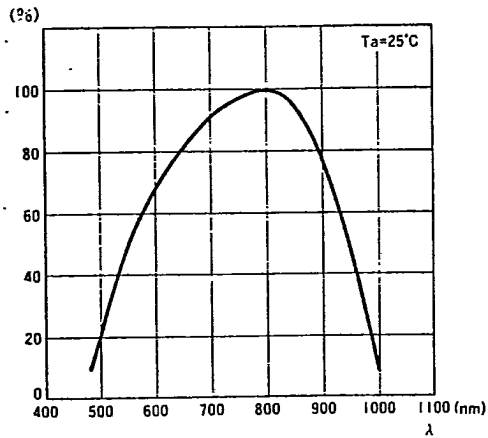
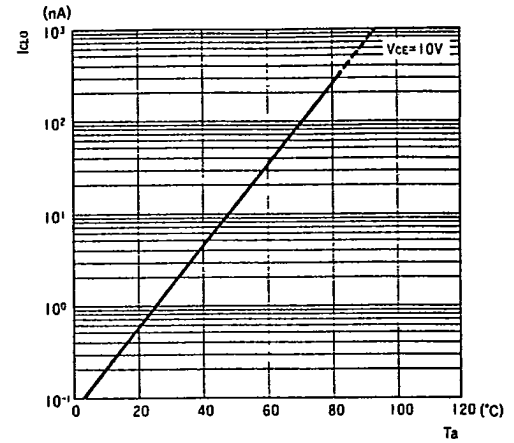
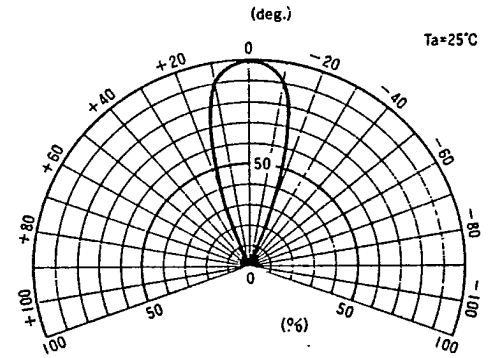
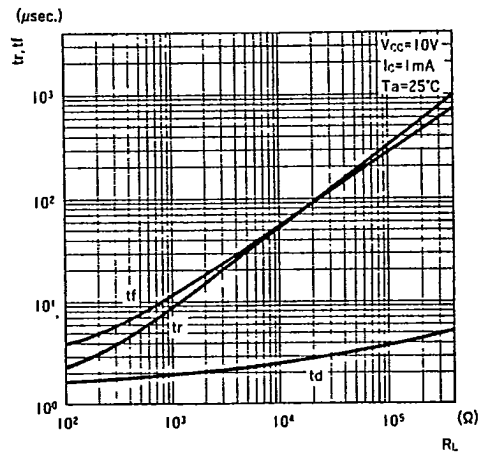
*2.=2856°K

CENTRONIC INC.

E-O Division

1829-B DeHavilland Dr. • Newbury Park, California 91320-1702 • (805) 499-5902 • FAX: (805) 499-7770

Morgan
ELECTRONICS DIVISION

I_C/V_{CE}  I_C/E_v  I_{CE0}/T_a  $t_r, t_f/R_L * I$  P_C/T_a 