CENTRONIC

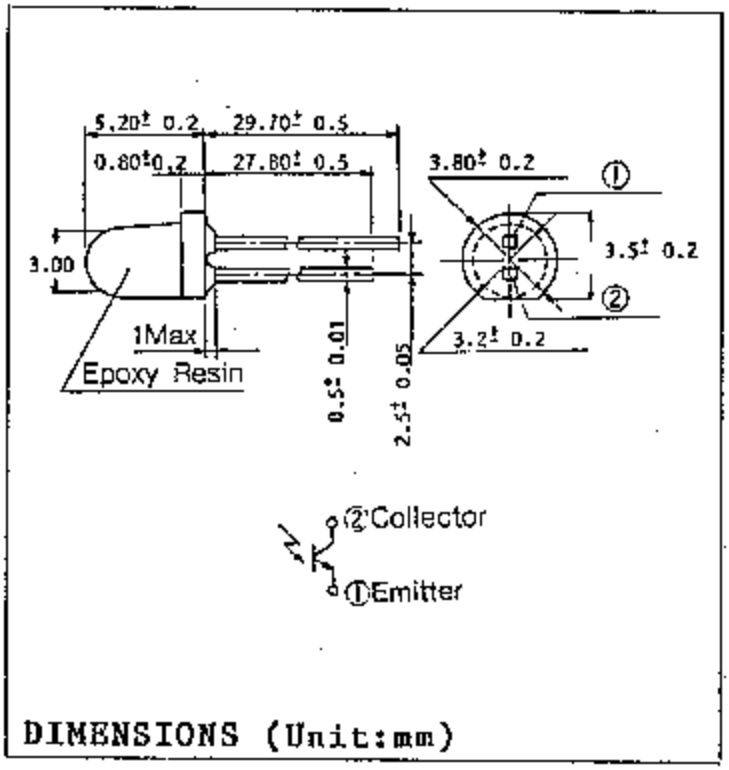
TECHNICAL DATA SHEET

ST-8LR2

T-41-61

SILICON PHOTOTRANSISTOR

The ST-8LR2 is a low cost, high sensitivity NPN silicon phototransistor mounted in a black plastic package. With a built-in lens this small phototransistor permits narrow angular response.



DIMENSIONS (Unit:mm)

MAXIMUM RATINGS (Ta=25°C)

ITEM	SYMBOL	RATING	UNIT
C-E Voltage	Vceo	20	V
E-C Voltage	Veco	5	V
Collector current	Ic	20	mA
Collector power dissipation	Pc	75	mW
Operating temp.	Topr.	-20 +80	°C
Storage temp.	Tstg.	-20 +80	°C
Soldering temp. *1	Tsol.	240	°C

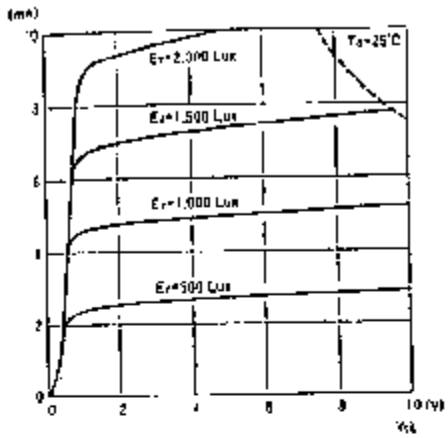
*1. 2mm t=5sec.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

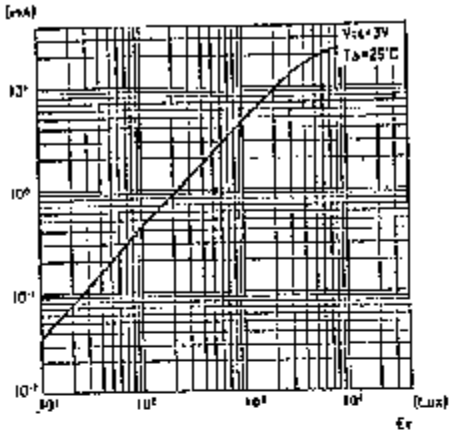
ITEM		SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Collector dark current		Iceo	Vceo=10V		1	100	nA
Light current		IL	Vce=3V,1,000Lux *2	0.5	5.0	20	mA
C-E saturation Voltage		Vce(sat)	Ic=0.2mA,2,000Lux *2		0.15	0.4	V
Switching speeds	Rise Time	tr	Vcc=10V Ic=1mA RL=100Ω		2.5		μsec.
	Fall Time	tf			3.6		μsec.
Spectral sensitivity		λ		720~1000			nm
Peak wavelength		λp			800		nm
Half angle		Δθ			±15		deg.

*2.=2856°K

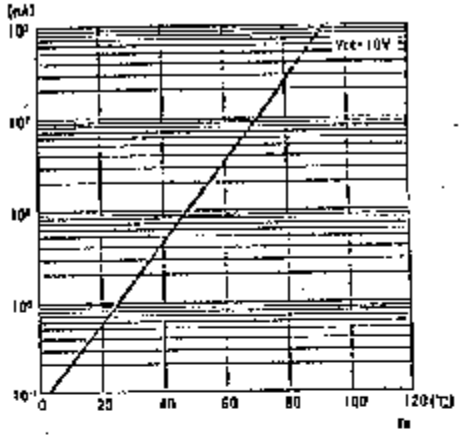
Ic/Vce

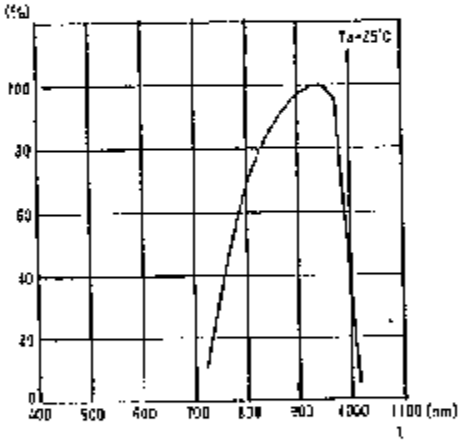


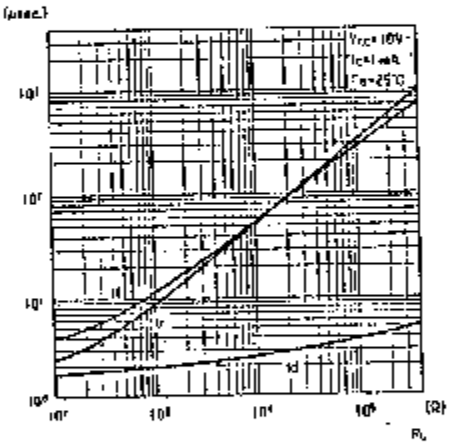
Ic/Ev

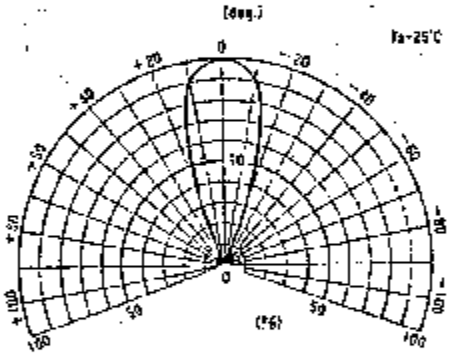


Iceo/Ta









Pc/Ta