

# PHOTOTRANSISTOR

## Model No. LR-2B11D

### ABSOLUTE MAXIMUM RATINGS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector emitter voltage	$V_{ce0}$	30	V
Emitter collector voltage	$V_{eco}$	5	V
Power dissipation	$P_m$	75	mW
Collector current	$I_c$	20	mA
Operating temperature	$T_{opr}$	-20 to +70	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-25 to +80	$^\circ\text{C}$

Lead soldering temperature ( 5mm from body )  $260^\circ\text{C}$  for 5 sec.

### ELECTRICAL OPTICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	CONDITION	Min.	Typ.	Max.	UNIT
Light current	$I_L$	$V_{ce}=5\text{V}$ $E_e=1\text{ mW/c m}^2$	0.3	0.6		mA
Collector dark current	$I_{ce0}$	$V_{ce}=10\text{V}$			100	nA
Collector-emitter breakdown voltage	$BV_{ce0}$	$I_c=1\text{mA}$ $E_e=0\text{ mW/c m}^2$	30			V
Emitter-collector breakdown voltage	$BV_{ce0}$	$I_c=1\text{mA}$ $E_e=0\text{ mW/c m}^2$	30			V
Collector-emitter saturation voltage	$V_{ce(sat)}$	$I_c=300\mu\text{A}$ $E_e=0.15\text{mW/c m}^2$		0.3	0.4	V
Wavelength of the max sensitivity				800		
Half angle	$2\theta$	$1/2$		140		deg.

Unit : mm

