

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°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	2θ			140		deg.

Unit : mm

