

PHOTOTRANSISTOR

Model No. LR-3B12C

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Emitter voltage	V _{ceo}	30	V
Emitter-Collector voltage	V _{eco}	6	V
Collector current	I _c	20	mA
Operating temperature	T _{opr}	-20 to +85	°C
Storage temperature	T _{stg}	-25 to +85	°C
Power dissipation	P _m	100	mW
Solder temperature for 3 seconds at 2 mm from the reflector edge		260	°C

ELECTRO-OPTICAL CHARACTERISTICS

$T_a = 25^\circ\text{C}$

CHARACTERISTIC	SYMBOL	TEST CONDITION	Min.	Typ.	Max.	UNIT
Light current	I _L	V _{ce} = 10V E _v = 200LUX	1300	2600		uA
Dark current	I _D	V _{ce} = 10 V			100	nA
Collector-Emitter breakdown voltage	BV _{ceo}	I _C = 100uA	20			V
Collector-Emitter saturation voltage	V _{ce(sat)}	I _C = 2mA I _B = 100uA			0.4	V
Wavelength of the max sensitivity				800		nm
Rise / Fall time	Tr / tf	V _{ce} = 5 V, I _c = 1mA R _L = 1000Ω		15/15		us
Half angle	2θ 1/2			40		deg.

Dimensions Unit: mm

Lens color : Black Transparent

