

L51P3C

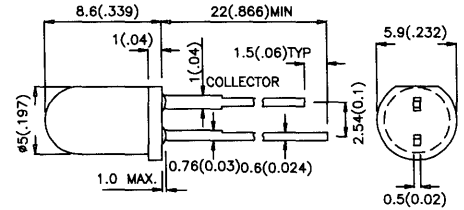


**T-1 3/4 (5mm) PHOTOTRANSISTOR**

L51P3C WATER CLEAR LENS

**ELECTRICAL AND RADIANT CHARACTERISTICS  $T_A=25^\circ\text{C}$**

Symbol	Parameter	Min.	Typ.	Max	Unit	Test Condition
$V_{BR\ CE0}$	Collector-to-Emitter Breakdown Voltage	30	-	-	V	$I_C=100\mu\text{A}$ $E_e=0\text{mW/cm}^2$
$V_{BR\ ECO}$	Emitter-to-Collector Breakdown Voltage	5	-	-	V	$I_E=100\mu\text{A}$ $E_e=0\text{mW/cm}^2$
$V_{CE(SAT)}$	Collector-to-Emitter Saturation Voltage	-	-	0.8	V	$I_C=2\text{mA}$ $E_e=20\text{mW/cm}^2$
$I_{CEO}$	Collector Dark Current	-	-	100	nA	$V_{CE}=10\text{V}$ $E_e=0\text{mW/cm}^2$
$T_R$	Rise Time (10% to 90%)	-	3	-	us	$V_{CE}=5\text{V}$ $I_C=1\text{mA}$ $RL=1000\ \Omega$
$T_F$	Fall Time (90% to 10%)	-	3	-	us	
$I_{(ON)}$	On State Collector Current	0.1	0.5	-	mA	$V_{CE}=5\text{V}$ $E_e=1\text{mW/cm}^2$ $\lambda=940\text{nm}$



**ABSOLUTE MAXIMUM RATING  $T_A=25^\circ\text{C}$**

Parameter	Max. Ratings
Collector-to-Emitter Breakdown Voltage	30V
Emitter-to-Collector Breakdown Voltage	5V
Power Dissipation at (or below) $25^\circ\text{C}$ Free Air Temperature	100mW
Operating Temperature Range	$-40^\circ\text{C} \sim +85^\circ\text{C}$
Storage Temperature Range	$-40^\circ\text{C} \sim +85^\circ\text{C}$
Lead soldering temperature (4mm for 5sec)	$260^\circ\text{C}$

NOTES :

- All dimensions are in millimeters (inches)
- Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  unless otherwise noted.