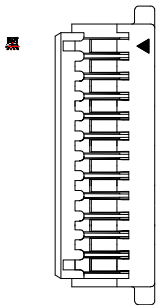
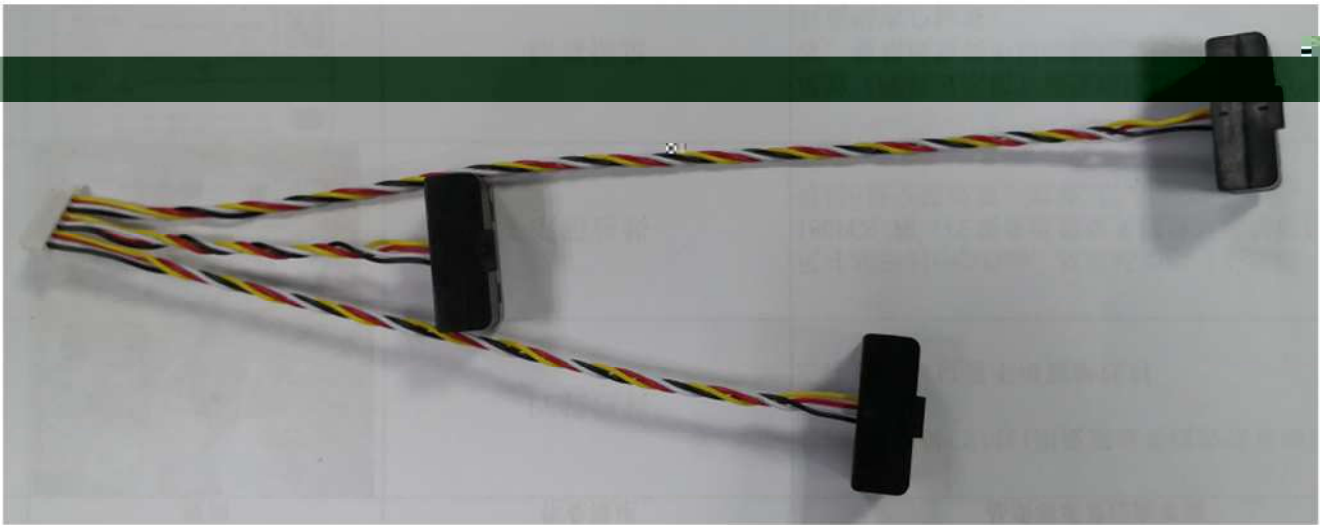




### PHOTOGRAPH OF PRODUCT



#### Notes:

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.50\text{mm}$  unless otherwise noted.
3. [REDACTED]
4. Specifications are subject to change without notice.

Pb free product—RoHS compliant

Fast response time

High sensitivity

Invisible wavelength =940nm

Integration structure

The four pins of the connector and the corresponding PCB pads are filled with silicone

Intelligent Sweeping Robot

Parameter		Symbol	Ratings	Unit
Input	Power Dissipation	Pd	170	mW
	Reverse Voltage	V <sub>R</sub>	5	V
	Forward Current	I <sub>F</sub>	100	mA
	Peak Forward Current <sup>*1</sup>	I <sub>FP</sub>	250	mA
Output	Collector Power Dissipation	Pc	75	mW
	Collector Current	I <sub>C</sub>	20	mA
	Collector-Emitter Voltage	V <sub>CEO</sub>	30	V
	Emitter-Collector Voltage	V <sub>ECO</sub>	5	V
Electrostatic Discharge (HBM)		ESD	4000	V
Operating Temperature Range		T <sub>opr</sub>	-25 to + 65	
Storage Temperature Range		T <sub>stg</sub>	-40 to + 85	

Input						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
						$f_F=50\text{mA}$
Forward Voltage	$V_F$	---	1.35	1.60	V	$I_F=50\text{mA}$
Reverse Current	$I_R$	---	---	10	$\mu\text{A}$	$V_R=5\text{V}$

Output						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	30	---	---	V	$I_C=0.1\text{mA}$ $E_e=0\text{mW/cm}^2$
Emitter-Collector Breakdown Voltage	$BV_{ECO}$	5	---	---	V	$I_E=0.1\text{mA}$ $E_e=0\text{mW/cm}^2$
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	---	---	0.4	V	$I_C=2\text{mA}$ $E_e=1.0\text{mW/cm}^2$
Rise Time	$T_r$					$V_{CC}=5\text{V}$ $R_L$ $I_C=1\text{mA}$
Fall Time	$T_f$					
Collector Dark Current	$I_{CEO}$	---	---	100	nA	$V_{CE}=10\text{V}$ $E_e=0\text{mW/cm}^2$
On State Collector Current	$I_{C(ON)}$	1.0	5.0	---	mA	$V_{CE}=5\text{V}$ $I_F=20\text{mA}$

<b>LIGHT</b> 深圳莱特光电股份有限公司 Light Electronics CO., LTD.	
TYPE NO. : _____	 LOT NO. : _____
QUANTITY: _____	
BIN: _____	
DATE CODE: _____	
REMARKS: _____	

