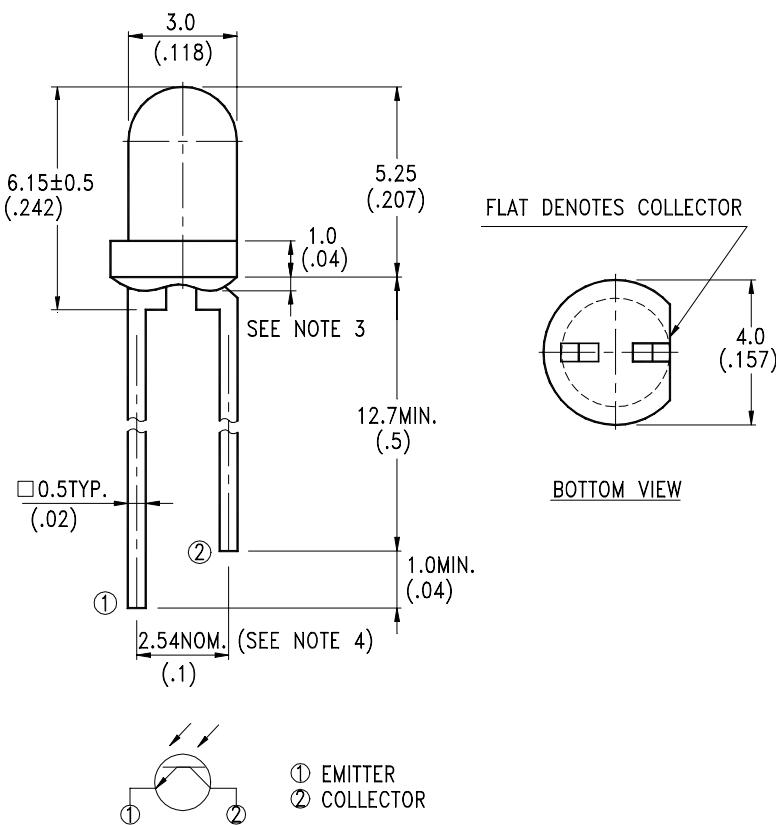


**FEATURES**

- \* WIDE RANGE OF COLLECTOR CURRENT
- \* LENSED FOR HIGH SENSITIVITY
- \* LOW COST PLASTIC PACKAGE
- \* E-SPECIAL DARK PLASTIC PACKAGE THAT CUT THE VISIBLE LIGHT AND SUITABLE FOR THE DETECTORS OF INFRARED APPLICATIONS

**PACKAGE DIMENSIONS****NOTES:**

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}(.010")$  unless otherwise noted.
3. Protruded resin under flange is 1.5mm(.059") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice for performance improvement.



**ABSOLUTE MAXIMUM RATINGS AT T<sub>A</sub>=25°C**

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation	100	mW
Collector-Emitter Voltage	30	V
Emitter-Collector Voltage	5	V
Operating Temperature Range	-40°C to + 85°C	
Storage Temperature Range	-55°C to + 100°C	
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds	



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ELECTRICAL / OPTICAL CHARACTERISTICS AT  $T_A=25^\circ\text{C}$

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	BIN NO.
Collector-Emitter Breakdown Voltage	$V_{(\text{BR})\text{CEO}}$	30			V	$I_C = 1\text{mA}$ $Ee = 0\text{mW/cm}^2$	
Emitter-Collector Breakdown Voltage	$V_{(\text{BR})\text{ECO}}$	5			V	$I_E = 100\ \mu\text{A}$ $Ee = 0\text{mW/cm}^2$	
Collector Emitter Saturation Voltage	$V_{\text{CE}(\text{SAT})}$			0.4	V	$I_C = 0.5\text{mA}$ $Ee = 1\text{mW/cm}^2$	
Rise Time	Tr		10		$\mu\text{s}$	$V_{\text{CC}} = 5\text{V}$ $I_C = 1\text{mA}$ $R_L = 1\text{K}\Omega$	
Fall Time	Tf		10		$\mu\text{s}$		
Collector Dark Current	$I_{\text{CEO}}$			100	nA	$V_{\text{CE}} = 10\text{V}$ $Ee = 0\text{mW/cm}^2$	
On State Collector Current	$I_{\text{C}(\text{ON})}$	0.4		1.2	mA	$V_{\text{CE}} = 5\text{V}$ $Ee = 1\text{mW/cm}^2$ $\lambda = 940\text{nm}$	BIN B
		0.8		2.4			BIN C
		1.6		4.8			BIN D
		3.2		9.6			BIN E
		6.4					BIN F

## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

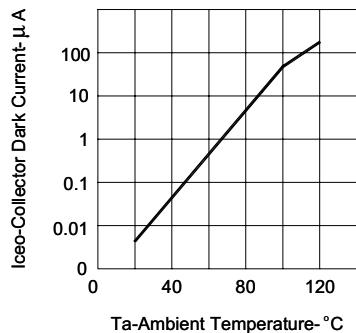


FIG.1 COLLECTOR DARK CURRENT VS AMBIENT TEMPERATURE

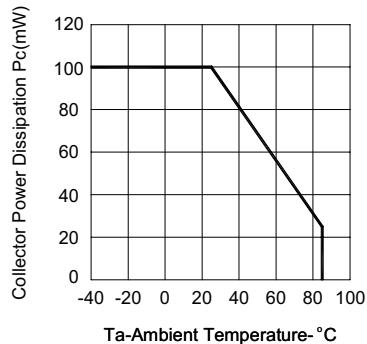


FIG.2 COLLECTOR POWER DISSIPATION VS AMBIENT TEMPERATURE

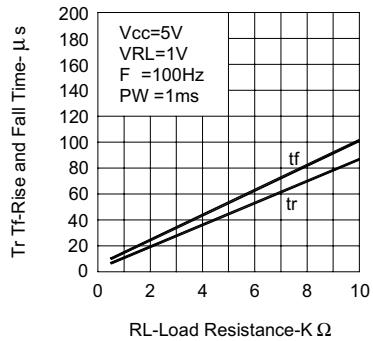


FIG.3 RISE AND FALL TIME VS LOAD RESISTANCE

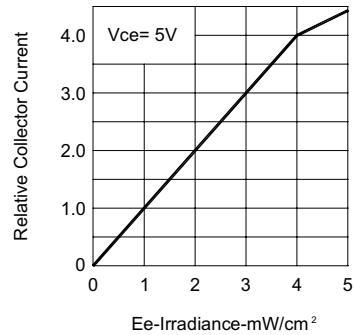


FIG.4 RELATIVE COLLECTOR CURRENT VS IRRADIANCE

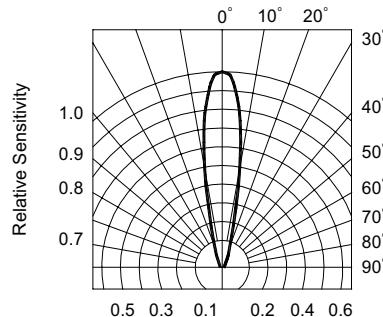


FIG.5 SENSITIVITY DIAGRAM

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