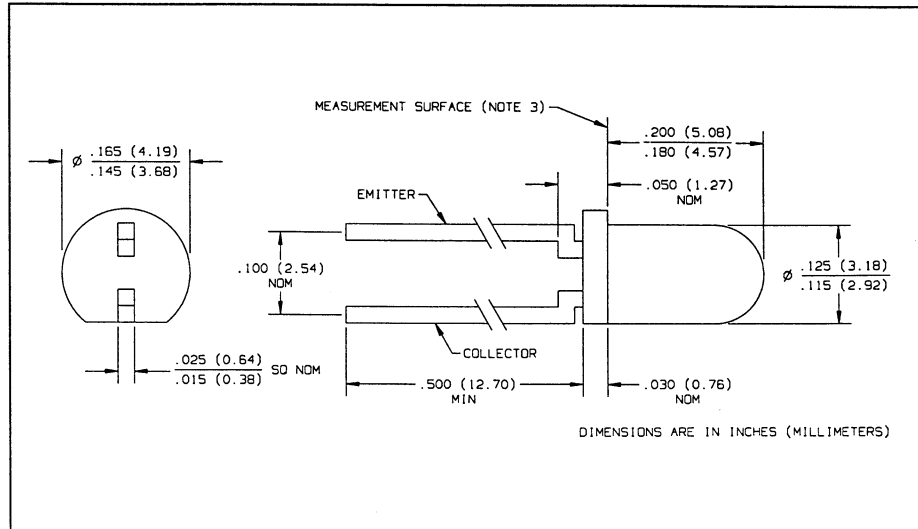
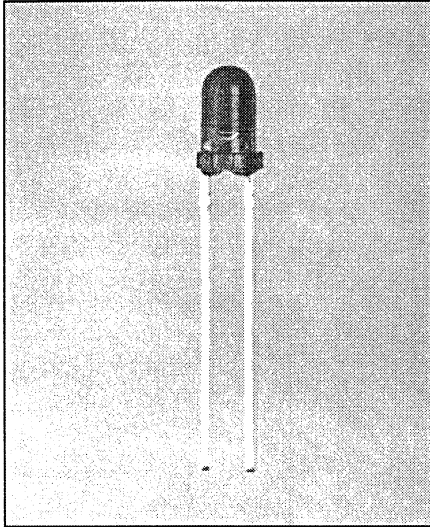




Types OP506A, OP506B, OP506C, OP506D

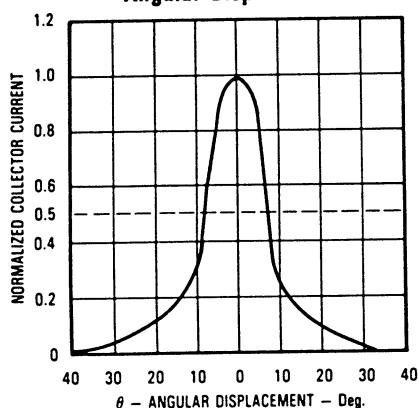
Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
$I_{C(ON)}$	On-State Collector Current	OP506D 0.55 OP506C 1.10 OP506B 2.15 OP506A 4.30		3.00 5.95	mA	$V_{CE} = 5\text{ V}$, $E_e = 0.50\text{ mW/cm}^2$ ⁽⁴⁾ $V_{CE} = 5\text{ V}$, $E_e = 0.50\text{ mW/cm}^2$ ⁽⁴⁾ $V_{CE} = 5\text{ V}$, $E_e = 0.50\text{ mW/cm}^2$ ⁽⁴⁾ $V_{CE} = 5\text{ V}$, $E_e = 0.50\text{ mW/cm}^2$ ⁽⁴⁾
$\Delta I_C/\Delta T$	Relative I_C Changes with Temperature		1.00		%/ $^\circ\text{C}$	$V_{CE} = 5\text{ V}$, $E_e = 1.0\text{ mW/cm}^2$
I_{CEO}	Collector Dark Current			100	nA	$V_{CE} = 10\text{ V}$, $E_e = 0$ ⁽⁴⁾
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	30			V	$I_C = 100\text{ }\mu\text{A}$
$V_{(BR)ECO}$	Emitter-Collector Breakdown Voltage	5.0			V	$I_E = 100\text{ }\mu\text{A}$
$V_{CE(SAT)}$	Collector-Emitter Saturation Voltage			0.40	V	$I_C = 250\text{ mA}$, $E_e = 0.50\text{ mW/cm}^2$ $\lambda = 935\text{ nm}$ ⁽³⁾

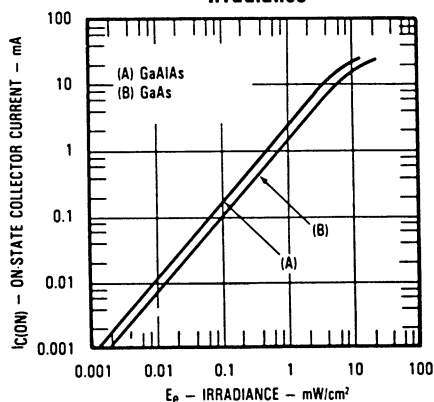
PHOTOSENSORS

Typical Performance Curves

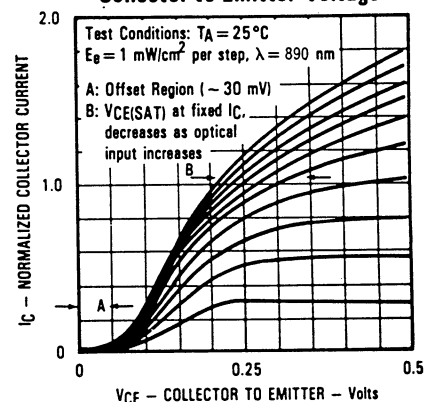
Normalized Collector Current vs Angular Displacement



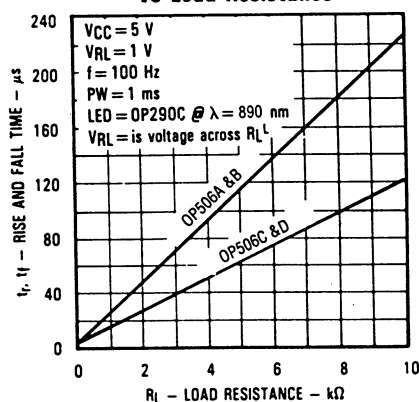
On-State Collector Current vs Irradiance



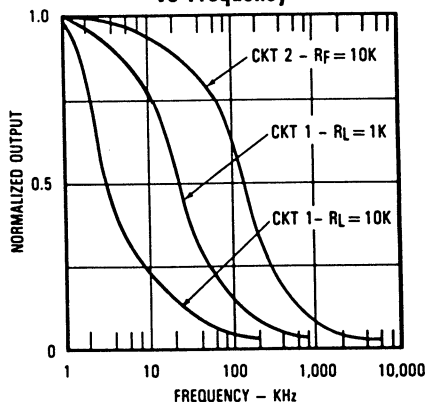
Normalized Collector Current vs Collector-to-Emitter Voltage



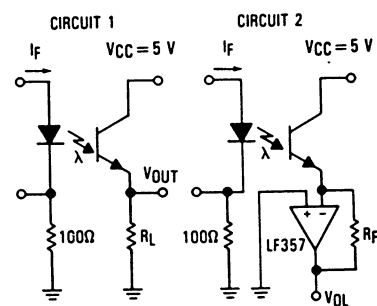
Rise and Fall Time vs Load Resistance



Normalized Output vs Frequency



Switching Time Test Circuit



Test Conditions:
Light source is pulsed LED with t_r and $t_f \leq 500\text{ ns}$.
 I_f is adjusted for $V_{OUT} = 1\text{ Volt}$.