



Sensors

●Electrical and optical characteristics (Ta=25°C)

Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Input characteristics	Forward voltage	$V_F$	-	1.34	1.6	V	$I_F=50\text{mA}$
	Reverse current	$I_R$	-	-	10	$\mu\text{A}$	$V_R=5\text{V}$
Output characteristics	Dark current	$I_{CEO}$	-	-	0.5	$\mu\text{A}$	$V_{CE}=10\text{V}$
	Peak sensitivity wavelength	$\lambda_P$	-	800	-	nm	-
Transfer characteristics	Collector current	$I_C$	0.08	0.3	0.8	$\mu\text{A}$	$V_{CE}=2\text{V}, I_F=10\text{mA}$
	Collector-emitter saturation voltage	$V_{CE(sat)}$	-	0.1	0.3	V	$I_F=20\text{mA}, I_C=0.1\text{mA}$
	Response time	tr-tf	-	10	-	$\mu\text{s}$	$V_{CC}=10\text{V}, I_F=20\text{mA}, R_L=100\Omega$

●Electrical and optical characteristic curves

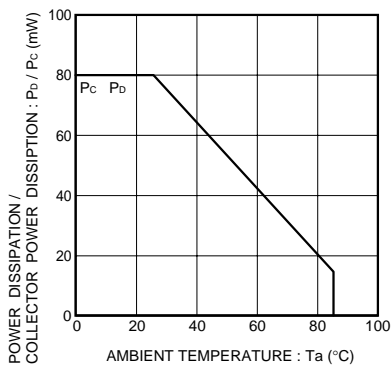


Fig.1 Power dissipation / collector power dissipation vs. ambient temperature

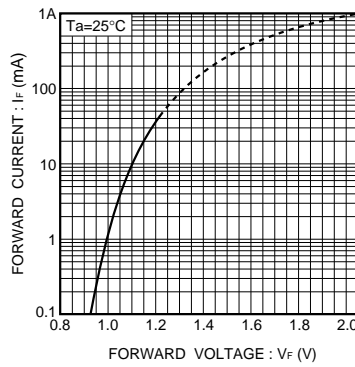


Fig.2 Forward current vs. forward voltage

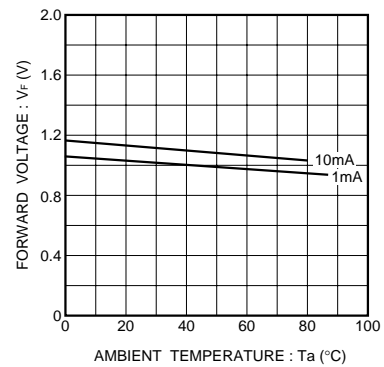


Fig.3 Forward voltage vs. ambient temperature

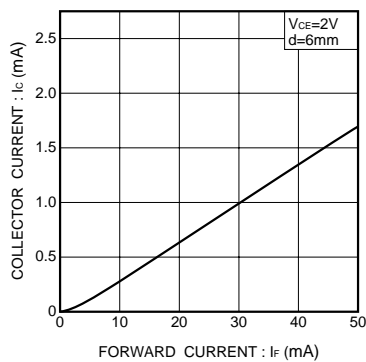


Fig.4 Collector current vs. forward current

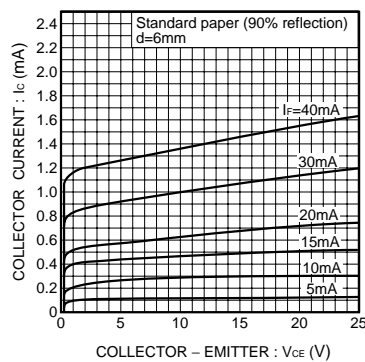


Fig.5 Output characteristics

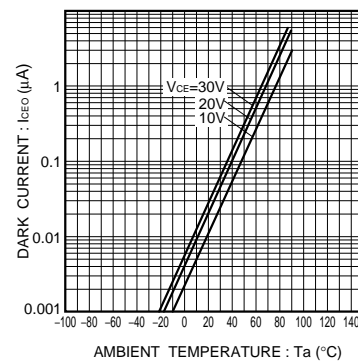


Fig.6 Dark current vs. ambient temperature

Sensors

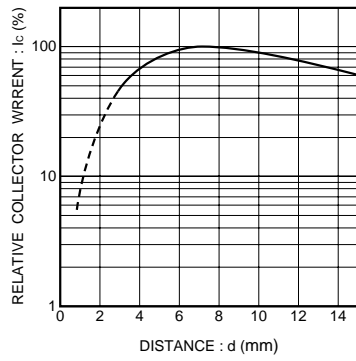


Fig.7 Relative output vs. distance

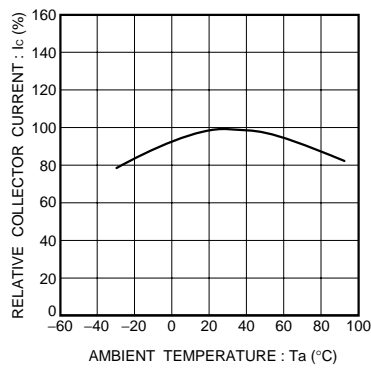


Fig.8 Relative output vs. ambient temperature

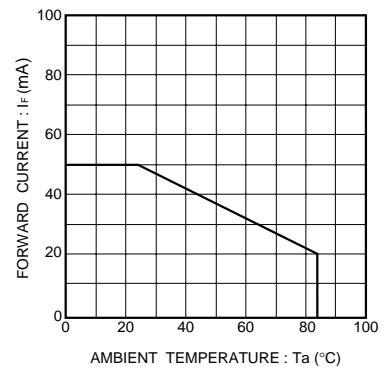
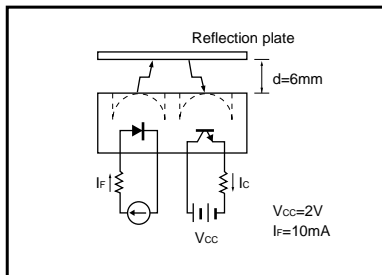


Fig.9 Forward current vs. ambient temperature

●Circuit for testing transfer characteristics



This datasheet has been download from:

[www.datasheetcatalog.com](http://www.datasheetcatalog.com)

Datasheets for electronics components.