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QSE113, QSE114

ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ C}$)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
λ_{PS}	Peak Sensitivity Wavelength		–	880	–	nm
Θ	Reception Angle		–	± 25	–	
I_{CEO}	Collector–Emitter Dark Current	$V_{CE} = 10\text{ V}$, $E_e = 0$	–	–	100	nA
BV_{CEO}	Collector–Emitter Breakdown	$I_C = 1\text{ mA}$	30	–	–	V
BV_{ECO}	Emitter–Collector Breakdown	$I_E = 100\ \mu\text{A}$	5	–	–	V
$I_{C(ON)}$	On–State Collector Current (Note 5) QSE113 QSE114	$E_e = 0.5\text{ mW/cm}^2$, $V_{CE} = 5\text{ V}$	0.25 1.00	– –	1.50 –	mA
$V_{CE(SAT)}$ t_r	Saturation Voltage (Note 5)	$E_e = 0.5\text{ mW/cm}^2$, $I_C = 0.1\text{ mA}$	–	–	0.4	V

TYPICAL PERFORMANCE CHARACTERISTICS

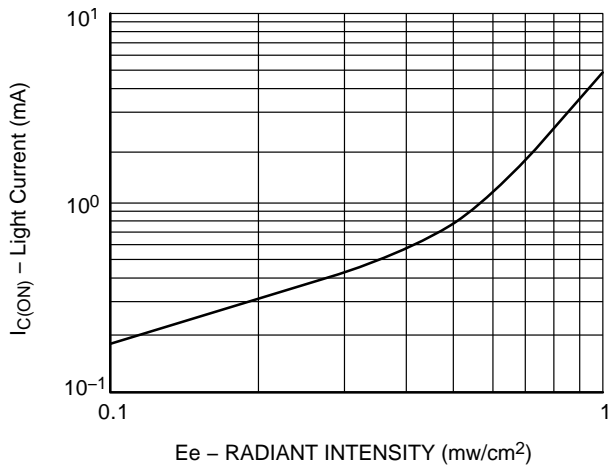


Figure 1. Light Current vs. Radiant Intensity

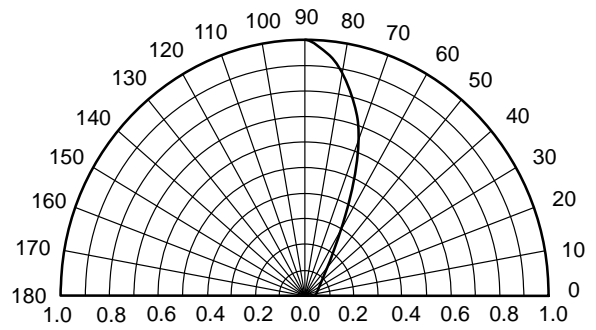


Figure 2. Angular Response Curve

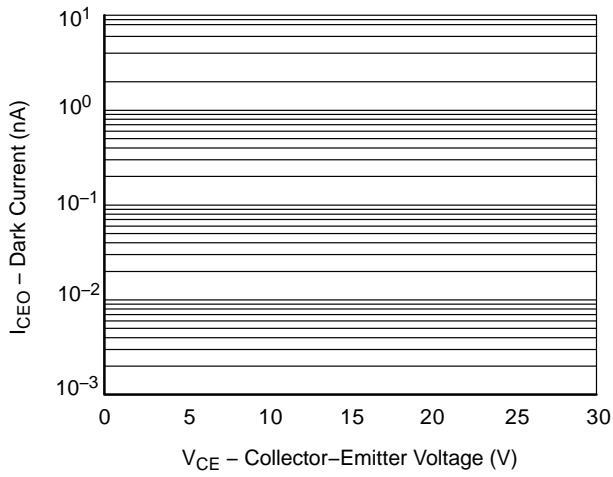


Figure 3. Dark Current vs. Collector - Emitter Voltage

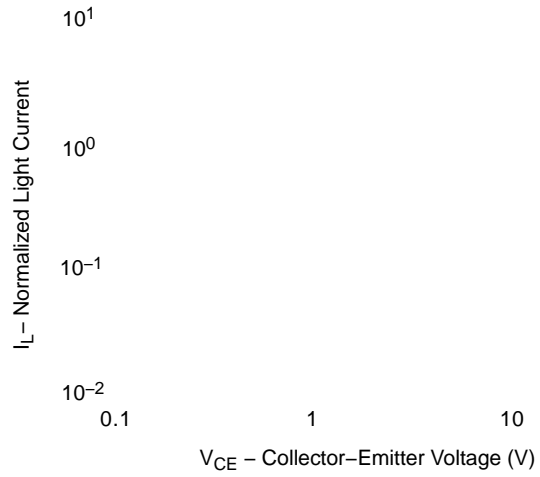


Figure 4. Light Current vs. Collector - Emitter Voltage

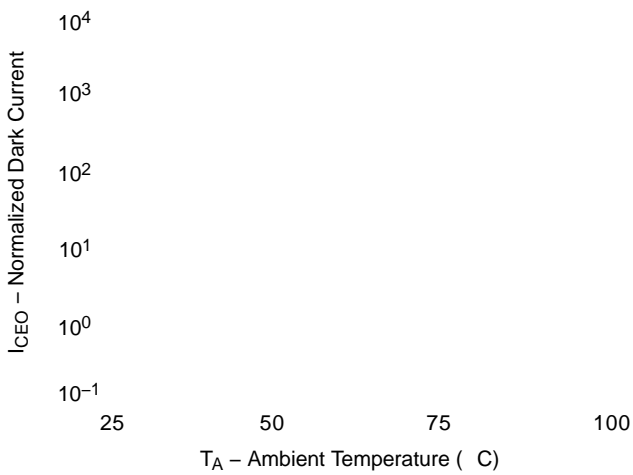
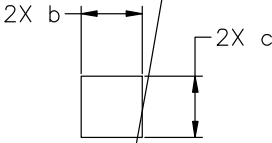


Figure 5. Dark Current vs. Ambient Temperature

SIDELOOKER 4.44x5.08x2.54, 2.54P
CASE 100CJ
ISSUE A

DATE 26 FEB 2024



DIMENSION (MILLIMETERS)			
	MIN	N/C	
			?
A3	0.64	0.76	0.89
b	0.51		
			l
D3	1.78	1.91	2.03
E	4.83	5.08	5.33
E1	1.14	1.27	1.40
e	2.41	2.54	2.67
ϕD	1.52	1.65	1.78
L	12.70	13.46	---

- NOTES:
1. DIMENSIONING AND TOLERANCING AS PER ASMEY14.5M, 2018.
 2. CONTROLLIN

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TOP VIEW

SIDE VIEW

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