ELECTRICAL/OPTICAL CHARACTERISTICS (T_A = 25 C unless otherwise noted)

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
INPUT DIODE							
V_F	Forward Voltage	I_F = 20 mA			1.2	1.6	V
I_R	Reverse Leakage Current	V_R = 5 V				10	μA
λ_{PE}	Peak Emission Wavelength	I_F = 20 mA			940		nm
OUTPUT TRANSISTOR							
I_D	Collector-Emitter Dark Current	I_F = 0 mA, V_{CE} = 20 V				100	nA
COUPLED							
$I_{C(ON)}$	On-State Collector Current	I_F = 20 mA, V_{CE} = 5 V (Note 6)	QRE1113 & QRE1113GR	0.10	0.90		mA
			QRE1114GR	0.30		0.60	mA
I_{CX}	Cross-Talk Collector Current	I_F = 20 mA, V					

TYPICAL PERFORMANCE CURVES (CONTINUED)

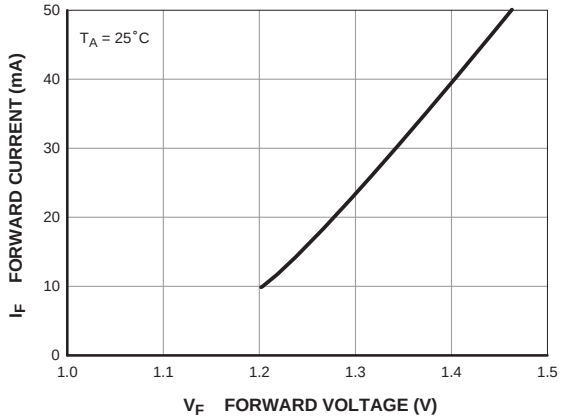


Figure 6. Forward Current vs. Forward Voltage

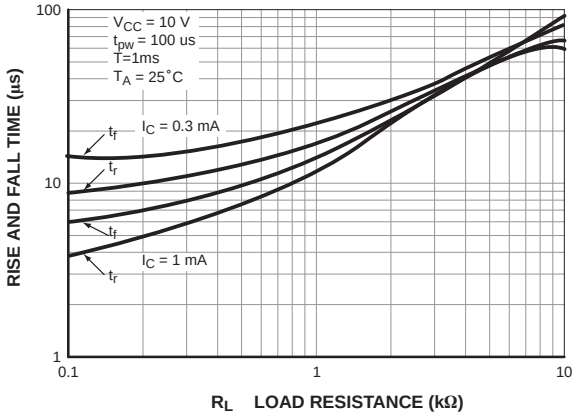


Figure 7. Rise and Fall Time vs. Load Resistance

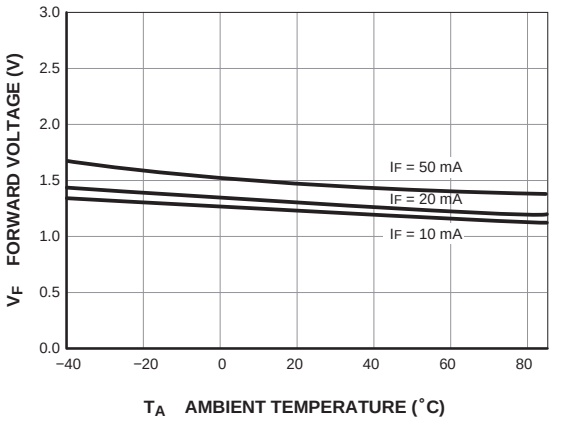


Figure 8. Forward Voltage vs. Ambient Temperature

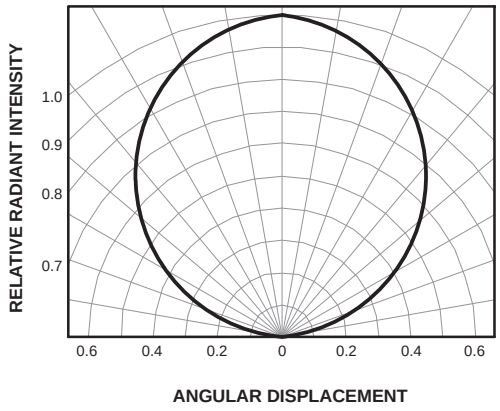


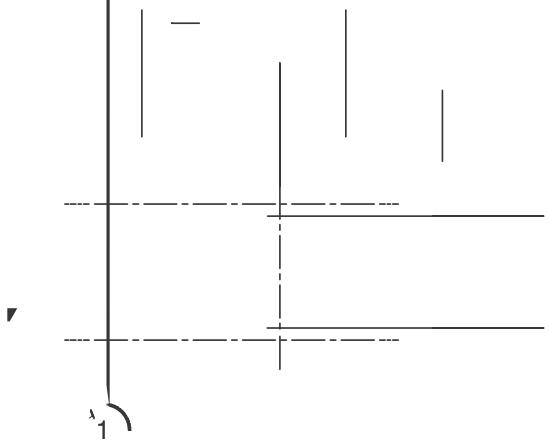
Figure 9. Radiation Diagram

Precautionary Notes

1. Refer to application note AND8003/D, “Storage and Handling of Dry Packed Surface Mounted Devices” for details of handling procedure.
2. Product soldering terminals are silver plated and oxidization may occur with prolonged exposure to ambient environment. Oxidized terminal may have poor solderability performance. Keep unsealed devices in moisture barrier bag sealed with desiccant or in dry cabinet at <5% relative humidity.
3. Store PCB in sealed moisture barrier bag together with desiccant or store in dry cabinet at <5% relative humidity. Mounted device that has been exposed to ambient environment for long period of time may suffer moisture related damage if PCB is subjected to subsequent high temperature processes.

REFLECTIVE RECTANGULAR THROUGH HOLE
CASE 100AQ
ISSUE O

DATE 30 SEP 2016



.50

.4

Notes:
1. Dimensions for all drawings ar

ARUSM−313 / REFLECTIVE RECTANGULAR SURFACE MOUNT
CASE 100CY
ISSUE O
DATE 31 JAN 2017

1.00

0.94

3.20

0.94

1.

TERN RECO

0.40

1.70 0.17
1.50 0.07

1.10
0.90

0.61 NO

LIES

TO THIS PACKAGE
B. ALL DIMENS