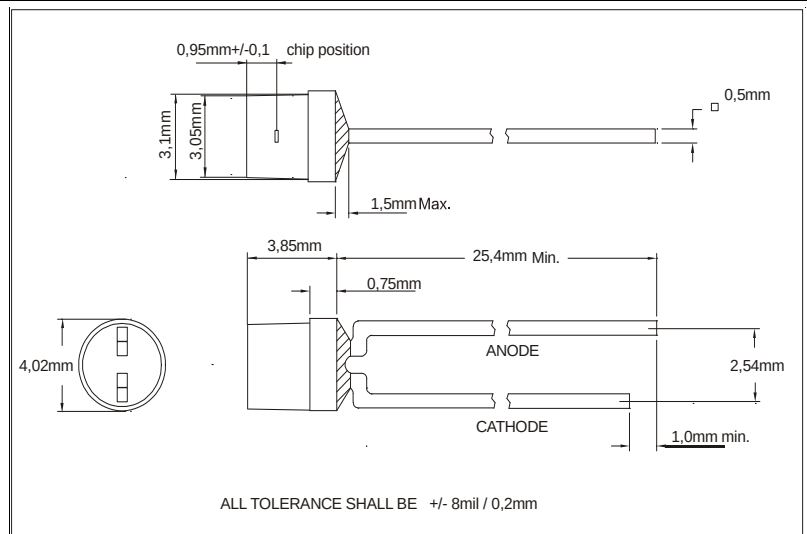


Edged Corner IRED**870nm****FQT35580AUA****Features**

- * Standard design LED for general purpose
Based on double hetero structure of GaAlAs
- * Low current and low degradation applications
- * Edged Corner Contact ; free top surface
- * Water-clear package style without stand-off
- * Application : Open-Air communication / IrDa
Lensed Optical Systems
Medical instruments
Encoder

**Electrical and optical characteristics and absolute maximum ratings (Ta=25°C unless otherwise noted)**

Symbol	Parameter	MIN	Typ	MAX	Unit	Test conditions
I _F	DC Forward current			100	mA	
I _{PEAK}	Peak Forward current			1500	mA	Tp < 10μsec. ; T=1:1 Rtherm < 100 K/W
V _R	Reverse Voltage	5			V	I _{rev} = 100μA
λ _{Peak}	Peak Wavelength	860	870	885	nm	I _F = 50mA
Δλ _{0.5}	Bandwidth of half power	25	30		nm	I _F = 50mA **
t _f	Fall time		25		ns	I _F = 100mA **
t _r	Rise time		25		ns	I _F = 100mA **
Φ _E	Total Power Output	38	45		mW	I _F = 100mA **
V _F	FQT35580AUA-AA	1,3		1,75	V	I _f = 150mA @Tp = 1ms
I _E		6		12	mW/sr	I _F = 100mA @100ms
V _F	FQT35580AUA-AB	1,75		2,1	V	I _f = 150mA @Tp = 1ms
I _E		6		12	mW/sr	I _F = 100mA @100ms
V _F	FQT35580AUA-BA	1,3		1,75	V	I _f = 150mA @Tp = 1ms
I _E		12		16	mW/sr	I _F = 100mA @100ms
V _F	FQT35580AUA-BB	1,75		2,1	V	I _f = 150mA @Tp = 1ms
I _E		12		16	mW/sr	I _F = 100mA @100ms
V _F	FQT35580AUA-CA	1,3		1,75	V	I _f = 150mA @Tp = 1ms
I _E		16			mW/sr	I _F = 100mA @100ms
V _F	FQT35580AUA-CB	1,75		2,1	V	I _f = 150mA @Tp = 1ms
I _E		16			mW/sr	I _F = 100mA @100ms
2Φ _{0.5}	Emission Angle		110		deg.	Φ _E = 50% **
TK _{VF}	Temp.Coeff. of Forward Voltage		- 2		mV/K	**
TK _F	Temp.Coeff. of Radiant Power		- 0,4		%/K	**
T _{Operating}	Operating Temperature	- 25		85	°C	
T _{Storage}	Storage Temperature	- 25		85	°C	
T _{Soldering}	Soldering Temperature			260	°C	2mm from case @5 sec.
Θ _{j-PIN}	Thermal Resistance		450		K/W	
P _{tot}	Total Power Dissipation			230	mW	derate above 45°C 2,5mW/K

* Tolerance of radiant measurement values +/-11%

** Values for information only

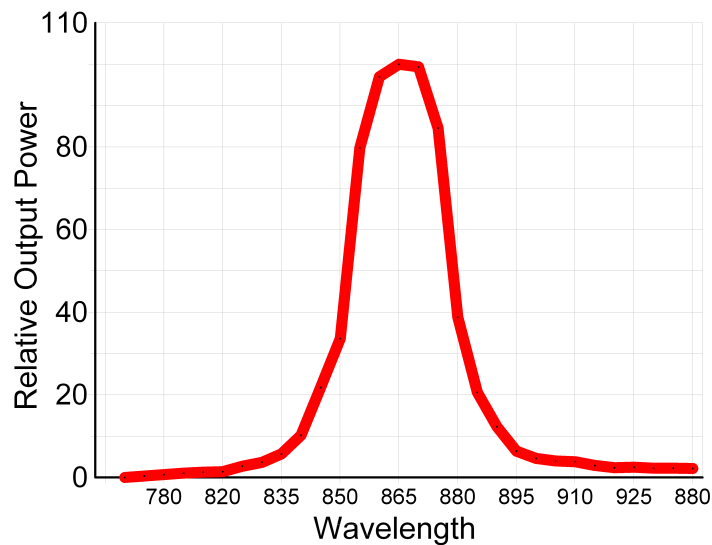
Order Informations :
 FQT35580AUA
 FQT35580AUA-XX

 Bulk (1000pcs./bag/BIN) all BIN
 Bulk (1000pcs./bag/BIN)

Fietje reserves the right to make changes at any time in order to improve design and to supply the best product possible, contact Fietje for latest device specification sheets before using.

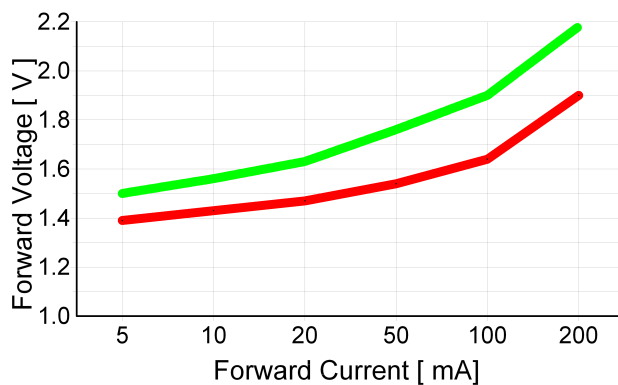
Edged Corner IRED

Relative Spectral Emission

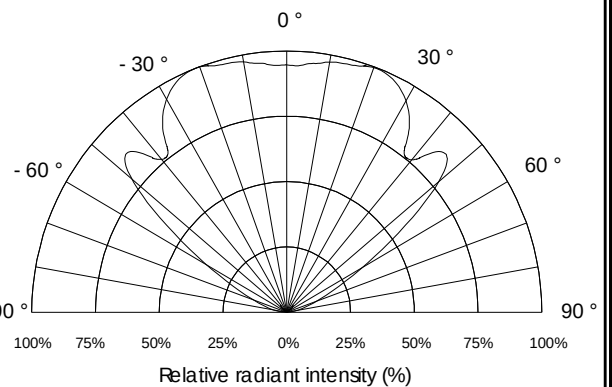


Forward Voltage

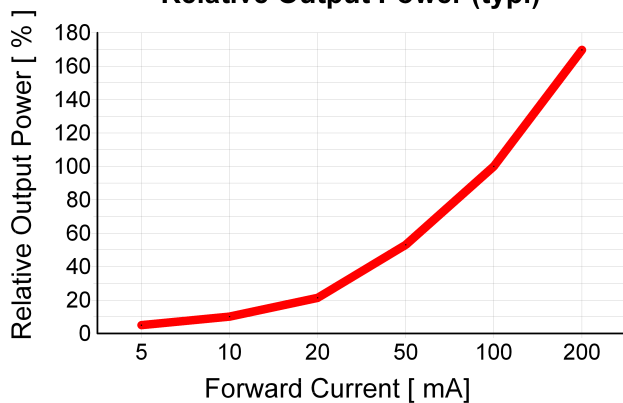
$V_f = f(I_f)$ typ.



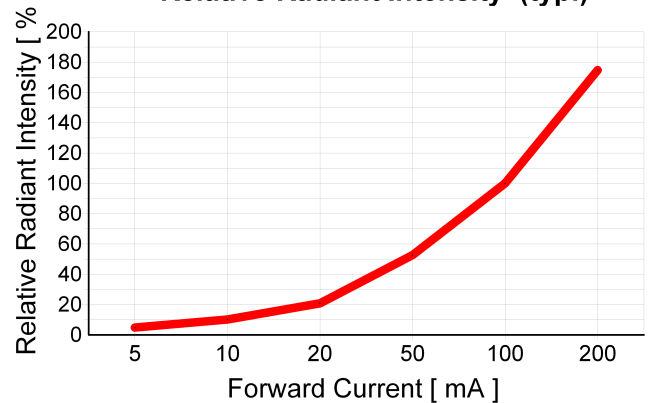
Angular Displacement [degree]



Relative Output Power (typ.)



Relative Radiant Intensity (typ.)



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