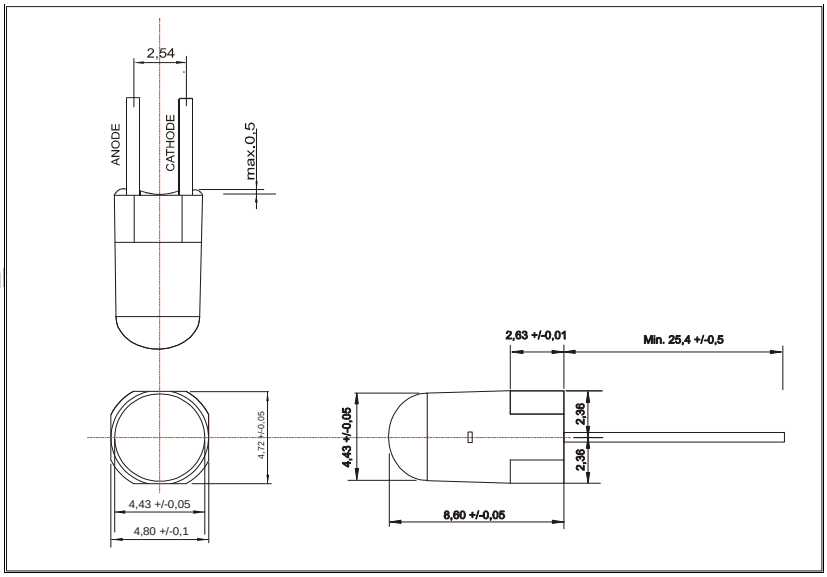
Infrared LED 965nm FQR65613AJA



Features

* Standard design LED for general purpose

* Fast switching time : typical <25ns

* High power for SMT case with typ. 45° full ang
  tape&reeled for automatic placing

* Water-clear package style

* Mountable in 5,0 mm raster

* Application : Open-Air communication / IrDa
  IR-Flash-Lights
  Medical instruments
  Light interrupter and switches

Electrical and optical characteristics and absolute maximum ratings (Ta=25℃ unless otherwise noted)

Symbol	Parameter	MIN	Typ	MAX	Unit	Test conditions
I_F	DC Forward current			100	mA	
I_{PEAK}	Peak Forward current			750	mA	Tp< 10µsec. ; T=1:100 ; Rtherm < 100 K/W
V_F	Forward Voltage	1,3	1,5	1,8	V	IF = 100mA
V_R	Reverse Voltage	5			V	Irev = 100µA
λ_{Peak}	Peak Wavelength	955	965	975	nm	IF = 20mA
$\Delta\lambda_{0,5}$	Bandwidth of half power	25	30		nm	IF = 50mA
t_f	Fall time		25		ns	IF = 100mA
t_r	Rise time		25		ns	IF = 100mA
Φ_E	Total Power Output	25	35		mW	IF = 100mA
I_E	Radiant Intensity (cone angle)	35	48		mW/sr	IF = 100mA
$2\Phi_{0,5}$	Emission Angel	40	45	50	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	℃	
$T_{Storage}$	Storage Temperature	- 25		85	℃	
$T_{Soldering}$	Soldering Temperature			260	℃	2mm from case @5 sec.
$\Theta_{j\text{-}PIN}$	Thermal Resistance		450		K/W	
P_{tot}	Total Power Dissipation			230	mW	derate above 45℃ 2,5mW/K

Order Informations : FQR65613AJA-XX--BU Bulk (1000 pcs./Bag)

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.