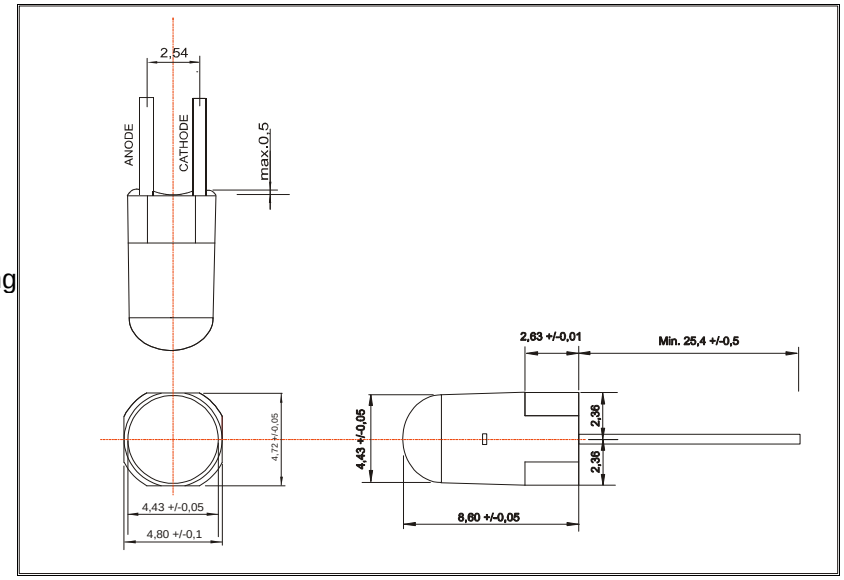
FIETJE SENSOR-& OPTOELEKTRONIK GMBH

Infrared LED 1020nm FQR65624AHA



Features

* Standard design LED for general purpose
* Fast switching time : typical <25ns
* High power for SMT case with typ. 35°full ang
* 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	1,7	V	IF = 100mA
V_R	Reverse Voltage	5			V	Irev = 100µA
λ_{Peak}	Peak Wavelength	1000	1020	1040	nm	IF = 100mA
$\Delta\lambda_{0,5}$	Bandwidth of half power		45		nm	IF = 100mA
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)	45	55		mW/sr	IF = 100mA
$2\Phi_{0,5}$	Emission Angel	30	35	40	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 : FQR65624AHA-XX--BU Bulk (1000 pcs./Bag)