

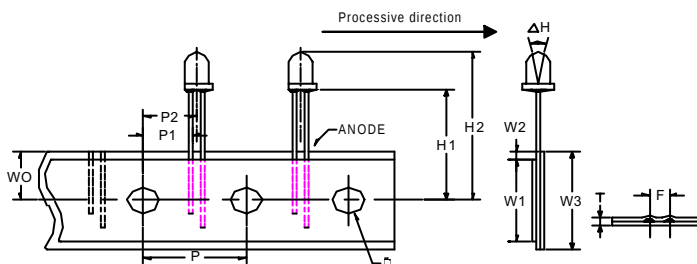


BVQ-5K5QT4 -TC

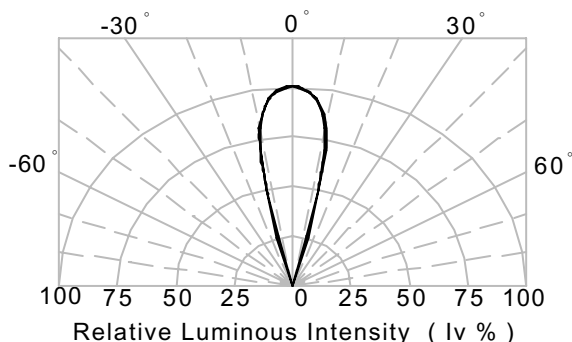
PACKAGE CONFIGURATION

DESCRIPTION

Dice Material : AlInGaP/GaP Orange Red
Light Color : Orange Red Color
Lens Color : Water Transparent
Stand-Off P/N : BVQ-5K5QT4 R-TC



RADIATION PATTERN



ITEM	SYMBOL	SPECIFICATION	
		SIZE	TOLERANCE
TAPE FEED HOLE DIAMETER	D	4.0	± 0.2
COMPONENT LEAD PITCH	F	2.54	± 0.5
FRONT-TO-REAR DEFLECTION	ΔH	MAX. 2.0	
FEED HOLE PITCH	P	12.7	± 0.3
LEAD LOCATION	P1	5.33	± 0.7
CENTER OF COMPONENT LOCATION	P2	6.35	± 1.3
OVERALL TAPED PACKAGE THICKNESS	T	MAX. 1.0	
FEED HOLE LOCATION	W0	9.0	± 0.5
ADHESIVE TAPE WIDTH	W1	13.0	± 0.5
ADHESIVE TAPE POSITION	W2	MAX. 4.0	
TAPE WIDTH	W3	18.0	± 0.5

unit: mm

NOTE 1: R : Loaded quantity per reel:1000 pcs/reel
T : Loaded quantity per tape :2000 pcs/tape

ITEM	SYMBOL	NOTE 2:				
		A	B	C	D	E
FEED HOLE TO BOTTOM OF COMPONENT	H1	18.5	19.0	19.7	21.5	22.5
FEED HOLE TO OVERALL COMPONENT HEIGHT	H2	27.1	27.6	28.3	30.1	31.1

Tolerance ± 0.25 mm

ABSOLUTE MAXIMUM RATINGS AT Ta = 25 °C

PARAMETER	MAX.	UNIT
Power Dissipation	80	mW
Continuous Forward Current	30	mA
Peak Forward Current (1/10 Duty Cycle , 0.1ms Pulse Width)	160	mA
Reverse Voltage	5	V
Derating Linear From 50 °C	0.4	mA/°C
Operating Temperature Range	−40 °C to + 100 °C	
Storage Temperature Range	−40 °C to + 100 °C	
Lead Solder Temperature 1.6 mm Below Package 260 °C for 5 seconds		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25 °C

SYMBOL	PARAMETER	TEST COND.	MIN.	TYP.	MAX.	UNIT
V _F	Forward Voltage	I _F = 20 mA		2.3	2.8	V
I _R	Reverse Current	V _R = 5V			100	μA
λ _p	Peak Emission Wavelength	I _F = 20 mA		634		nm
λ _d	Dominant Wavelength	I _F = 20 mA		629		nm
2θ _{1/2}	Viewing Angle	I _F = 20 mA		25		Deg

BIN GRADE LIMITS (I_F = 20 mA) LUMINOUS INTENSITY / mcd

Bin	L	M	N	O	P	Q	R	S	T	U	V	W
Min.	1680	2180	2800	3600	4650	6000	7800	10000	13000	16800	21800	28000
Max.	2180	2800	3600	4650	6000	7800	10000	13000	16800	21800	28000	36000

Tolerance ± 15% mcd

*Bright View reserves the rights to alter specifications and remove availability of products at any time without notice.

*Dominant Wavelength, λ_d is according to CIE Chromaticity Diagram base on color of lamps.

*θ_{1/2} is the off-axis angle where the luminous intensity is one half the on-axis intensity.