

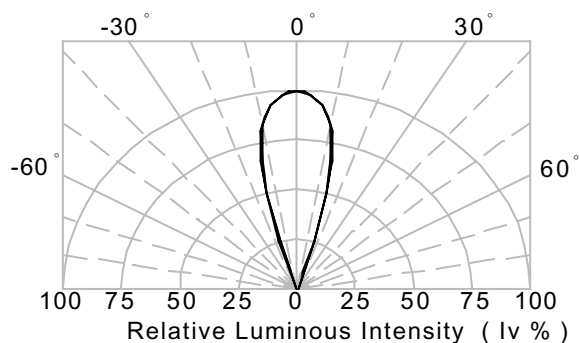


BVQ-5M1RS1 -TC

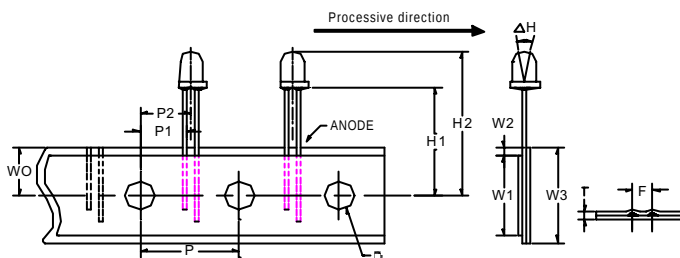
DESCRIPTION

Dice Material : GaAlAs/GaAs Red
Light Color : Red Color
Lens Color : Red Diffused
Stand-Off P/N : BVQ-5M1RS1 R-TC

RADIATION PATTERN



PACKAGE CONFIGURATION



ITEM	SYMBOL	SPECIFICATION	
		MILLIMETER	
		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	100	mW
Continuous Forward Current	40	mA
Peak Forward Current (1/10 Duty Cycle , 0.1ms Pulse Width)	200	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		1.9	2.2	V
I R	Reverse Current	V R = 5V			100	μ A
λ p	Peak Emission Wavelength	I F = 20 mA		660		n m
λ d	Dominant Wavelength	I F = 20 mA		643		n m
2 θ 1/2	Viewing Angle	I F = 20 mA		30		Deg

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

Bin	Z	A	B	C	D	E
Min.	78	100	130	168	218	280
Max.	100	130	168	218	280	360

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.