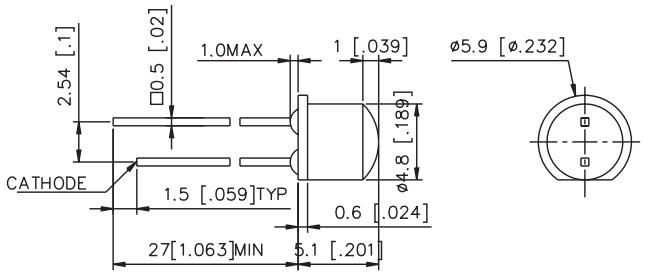
5H3XCH

- **Emitting Color: Red, Yellow, Pure Green, or White**
- **Chip Material: AlGaInp, InGaN, or GaN**
- **Construction: Gas Phase Epitaxial**
- **Application: Lighting, LED Bulb**
- **Absolute Maximum Ranges (Ta=25±3℃)**

Power Dissipation	P_D	60mW	
Reverse Current(V_R=5V)	I_R	≤10uA	
DC Forward Current	I_F	30mA	
Pulsed Forward Current	I_{FP}	150mA	***1**
Reverse Voltage	V_R	5V	
Operating Temperature	Topr	-35~+80℃	
Storage Temperature	Tstg	-40~+100℃	

- **Package Dimensions**



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is +/-0.1mm (0.004 inch) unless otherwise specified.
3. The products are sensitive to static electricity.

Electrical and Optical Characteristics (Ta=25±3℃)

Part No.	Chip			Lens Color	Vf(V)		Luminous Intensity Iv *2				2θ (Deg.)
	Material	Emitting Color	Wavelength λp(nm) *3		Typ.	Max.	at If=mA	Min. (mcd)	Typ. (mcd)	Max. (mcd)	
5H3VCH	AlGaInP	Red	625	Water Clear	1.9	2.1	20	100	200	250	180
5H3YCH	AlGaInP	Yellow	590	Water Clear	1.9	2.1	20	100	200	250	180
5H3PGCH	InGaN	Pure green	520	Water Clear	3.0	3.6	20	300	400	500	180
5H3BCH	GaN	Blue	465	Water Clear	3.0	3.6	20	100	200	300	180
5H3WCH	InGaN	White	X:0.28 Y:0.32	Water Clear	3.0	3.6	20	400	500	600	180

(*1) Duty 1/10 Pulse Width 10ms.

(*2) Guaranteed value what is include tolerance of measurement of Luminous Intensity by Toyoda Gosei's method is ±20%.

(*3) Guaranteed Value what is include tolerance of measurement of Dominant wavelength by Toyoda Gosei's method is ±2nm.