

### DESCRIPTION:

The 339 Full Color series is full color LED in 5mm round package with 4 pins and white diffused or water clear lens.

It is perfect for use in full color commercial LED display and indicators.

The semi-conductor materials used are:

GB-339RPGBW & GB-339RPGBC: AlGaInP for Red, InGaN for Blue and True Green

GB-339RPGBW-A & GB-339RPGBC-A: AlGaAs for Red, InGaN for Blue and True Green

### ABSOLUTE MAXIMUM RATINGS: (Ta=25°C)

Reverse Voltage	5 Volt
Reverse Current (Vr =5V)	100μA
Operating Temperature Range	-40°C To 85°C
Storage Temperature Range	-40°C To 100°C
Lead Soldering Temperature (1.6mm (1/16)From Body)	260°C For 5 Seconds

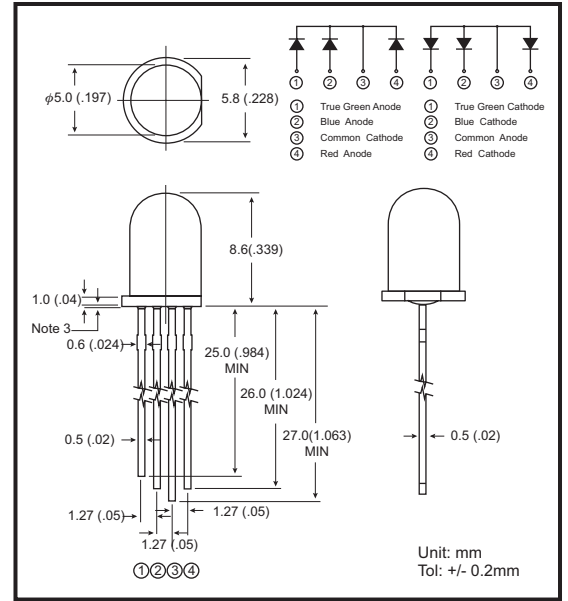
NOTES : 1. All dimensions are in millimeters.

2. Lead spacing is measured where the leads emerge from the package.

3. Protuded resin under flange is 1.5 mm (0.059") Max.

4. Specifications are subject to change without notice.

### PACKAGE DIMENSIONS



### PART NO. SELECTION AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

Part No.	Emitted Color	Lens Color	Peak Wavelength $\lambda_p$ (nm)	Vf (v)		Rec. If (mA)	Iv (mcd)		View Angle $2\theta_{1/2}$ (Deg)
				Min	Max		Min	Typ.	
GB-339RPGBC-A (Common Anode Type)	Ultra Red	Water Clear	660	1.6	2.6	20	350	750	35
	True Green		525	2.8	4.0	20	700	1500	35
	Blue		468	2.8	4.0	20	200	400	35
GB-339RPGBW-A (Common Anode Type)	Ultra Red	White Diffused	660	1.6	2.6	20	60	140	65
	True Green		525	2.8	4.0	20	250	500	65
	Blue		468	2.8	4.0	20	70	150	65
GB-339RPGBC (Common Cathode Type)	Ultra Red	Water Clear	635	1.6	2.5	20	350	750	35
	True Green		525	2.8	4.0	20	700	1500	35
	Blue		468	2.8	4.0	20	200	400	35
GB-339RPGBW (Common Cathode Type)	Ultra Red	White Diffused	635	1.6	2.5	20	120	250	65
	True Green		525	2.8	4.0	20	200	450	65
	Blue		468	2.8	4.0	20	60	130	65

### TESTING CONDITION FOR EACH PARAMETER :

PARAMETER:	SYMBOL	UNIT	TEST CONDITION
REVERSE VOLTAGE	Vr	VOLT	Vr = 5.0 Volt
REVERSE CURRENT	Ir	μA	If = 20mA
FORWARD VOLTAGE	Vf	VOLT	If = 20mA
LUMINOUS INTENSITY	Iv	MCD	If = 20mA
VIEWING ANGLE	$2\theta_{1/2}$	DEGREE	
RECOMMENDED OPERATING CURRENT	If (Rec)	mA	

### SPATIAL DISTRIBUTION :

