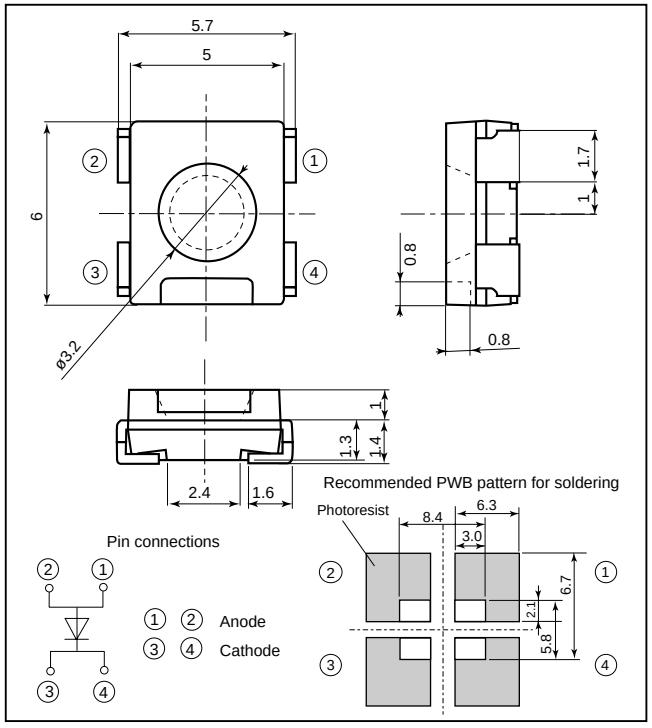
GM5Z❑01200A series

6050 Size, 2.4mm Thickness, Leadless Chip LED

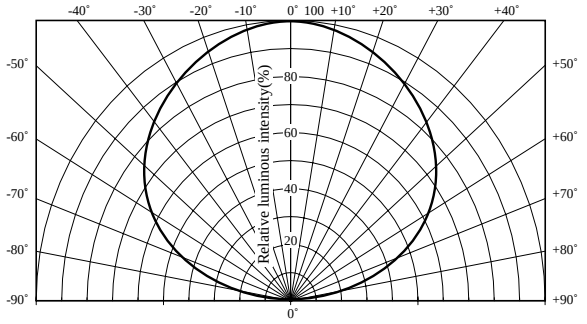
■ Outline Dimensions

(Unit : mm)



■ Directive Characteristics

(Ta=25˚C)



■ Absolute Maximum Ratings

(Ta=25˚C)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current IF (mA)	Peak forward current IFM*1 (mA)	Derating factor (mA/˚C)		Reverse voltage VR (V)	Operating temperature Topr (˚C)	Storage temperature Tstg (˚C)	Soldering temperature Tsol*2 (˚C)
						DC	Pulse				
GM5ZR01200A	Red	AlGaInP on GaAs	200	70	80	0.82	0.94	5	-55 to +110	-55 to +110	295
GM5ZJ01200A	Orange	AlGaInP on GaAs	200	70	80	0.82	0.94	5	-55 to +110	-55 to +110	295
GM5ZS01200A	Sunset orange	AlGaInP on GaAs	200	70	80	0.82	0.94	5	-55 to +110	-55 to +110	295
GM5ZV01200A	Amber	AlGaInP on GaAs	200	70	80	0.82	0.94	5	-55 to +110	-55 to +110	295
GM5ZE01200A	Yellow-green	AlGaInP on GaAs	200	70	80	0.82	0.94	5	-55 to +110	-55 to +110	295
GM5ZG01200A	Green	AlGaInP on GaAs	200	70	80	0.82	0.94	5	-55 to +110	-55 to +110	295

*1 Duty ratio=1/10, Pulse width=0.1ms

*2 For 3s or less at the temperature of hand soldering. Temperature of reflow soldering is shown on page 2.

■ Electro-optical Characteristics

(IF=60mA,Ta=25˚C)

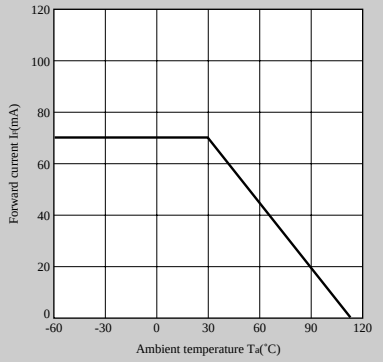
Lens type	Model No.	Forward voltage VF(V)		Peak emission wavelength λp(nm)	Dominant wavelength λd(nm)	Luminous intensity Iv(mcd)	Spectrum radiation bandwidth Δλ(nm)	Reverse current		Page for characteristics diagrams
		TYP	MAX	TYP	TYP	TYP	TYP	IR(μA) MAX	VR (V)	
Colorless transparency	GM5ZR01200A	2.2	2.9	647	635	400	18	100	4	54
	GM5ZJ01200A	2.2	2.9	627	618	500	18	100	4	54
	GM5ZS01200A	2.2	2.9	609	605	700	18	100	4	54
	GM5ZV01200A	2.2	2.9	591	588	500	18	100	4	54
	GM5ZE01200A	2.8	3.4	570	570	120	15	100	4	54
	GM5ZG01200A	2.8	3.4	560	560	40	15	100	4	54

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Internet Internet address for Electronic Components Group http://sharp-world.com/ecg/

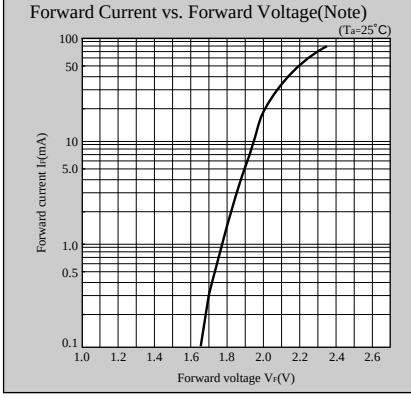
Characteristics Diagrams

GM5Z□01200A series

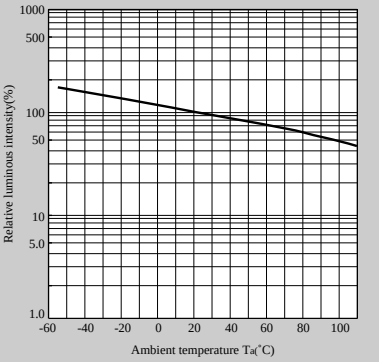
Forward Current Derating Curve



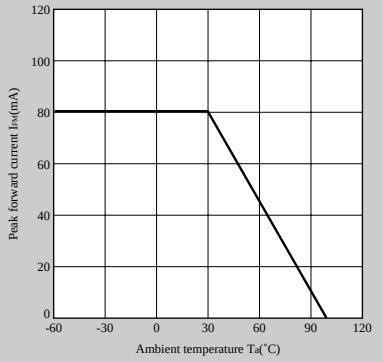
Forward Current vs. Forward Voltage(Note)



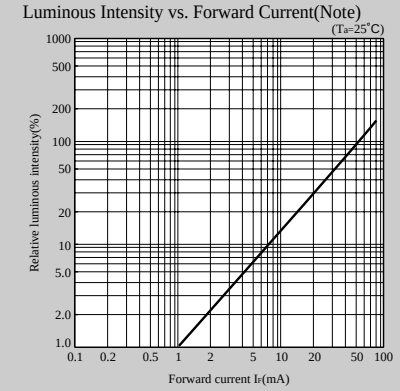
Luminous Intensity vs. Ambient Temperature(Note)



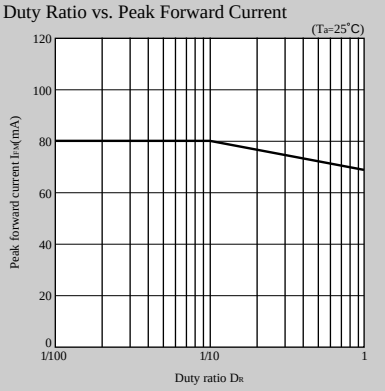
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current



Note)Characteristics shown in diagrams are typical values. (not assurance value)

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--- Consumer electronics

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--- Various safety devices, etc.

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