GM1JV55200AE Series
GM1BC55270AC
GM1GC55200AC
GM1EG55200A Series

Chip LED

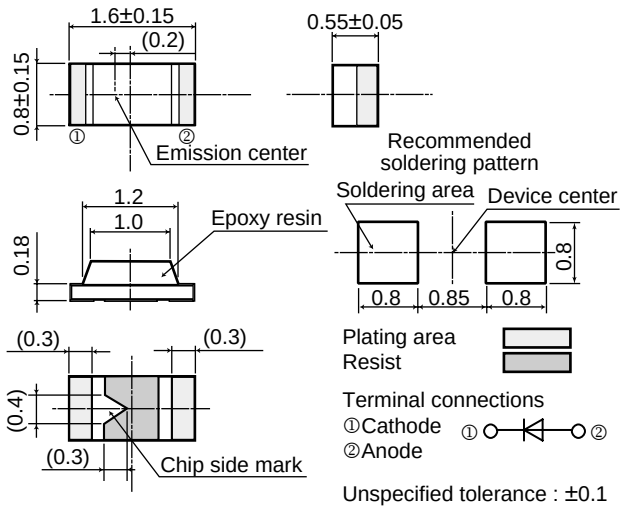
1608 size
0.55 mm thickness

Features

- Outline dimensions : 1.6×0.8×0.55 mm
- Taped products (5 000 pcs/reel)
- Lead-free (product contains no lead)

Outline Dimensions

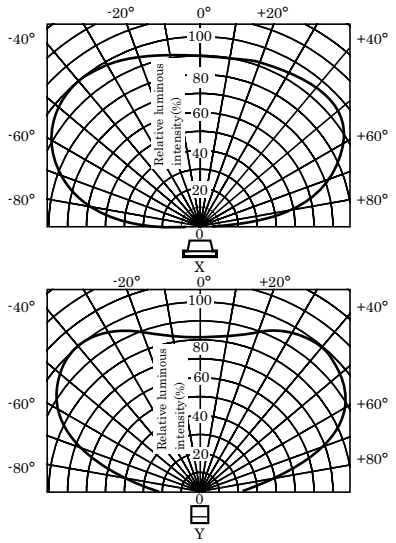
(Unit : mm)



GM1UR55200AE : polarity inversion type

Directive Characteristics

(Ta=25 ℃)



Absolute Maximum Ratings

(Ta=25 ℃)

Model No.	Material	Power dissipation P (mW)	Forward current I_F (mA)	Peak forward current I_{FM}*1 (mA)	Derating factor (mA / ℃) DC	Derating factor (mA / ℃) Pulse	Reverse voltage V_R (V)	Operating temperature T_{opr} (℃)	Storage temperature T_{stg} (℃)	Soldering temperature T_{sol}*2 (℃)
GM1J❑55200AE series	AlGaInP on GaAs	52	20	40	0.27	0.53	5	-30 to +85	-40 to +100	350
GM1BC55270AC	InGaN	63	20	40	0.27	0.53	5	-20 to +80	-40 to +100	250
GM1GC55200AC	InGaN	78	20	40	0.27	0.53	5	-20 to +80	-40 to +100	250
GM1❑❑55200A series	GaAsPonGaP*3	84*4	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350

*1 Duty ratio=1/10, Pulse width=0.1 ms *2 For 3 s or less, Hand soldering. *3 GM1UR55200A : GaAlAs on GaAlAs, GM1EG55200A : GaP *4 GM1UR55200A : 75

Electro-optical Characteristics

(Ta=25 ℃)

Resin type	Model No.	Emitting color	Forward voltage V_F (V) TYP.	Forward voltage V_F (V) MAX.	Peak emission wavelength λp (nm) TYP.	Dominant wavelength λd (nm) TYP.	Luminous intensity Iv (mcd) TYP.	Spectrum radiation bandwidth Δλ (nm) TYP.	Reverse current I_R (μA) MAX.	Reverse current V_R (V)	Terminal capacitance Ct (pF) TYP.	Terminal capacitance (MHz)	Conditions I_F (mA)	Page for characteristics diagrams
Colorless transparency	**GM1JJ55200AE**	Orange	2.0	2.6	627	618	19	15	100	4	60	1	5	54
	GM1JS55200AE	Sunset orange	2.0	2.6	609	605	20.9	15	100	4	60	1	5	
	GM1JV55200AE	Amber	2.0	2.6	591	588	16.8	15	100	4	60	1	5	
	GM1JE55200AE	Yellow-green	2.0	2.6	575	573	13	15	100	4	60	1	5	
★ Colorless transparency	**GM1BC55270AC**	Blue	2.9	3.15	465	470	23	26	100	4	-	-	5	59
Colorless transparency	**GM1GC55200AC**	Green	3.2	3.9	528	530	47	36	100	4	-	-	10	59
Colorless transparency	**GM1UR55200A**	Red	1.85	2.5	660	-	29.7	20	100	3	25	1	20	66
	GM1HD55200A	Red	2.0	2.8	635	-	12.5	35	10	4	20	1	20	67
	GM1HS55200A	Sunset orange	2.0	2.8	610	-	11.4	35	10	4	35	1	20	68
	GM1HY55200A	Yellow	2.1	2.8	585	-	11.5	30	10	4	35	1	20	68
	GM1EG55200A	Yellow-green	2.1	2.8	565	-	19.0	30	10	4	35	1	20	69

★ Under development

(Notice)
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