



GM1JV35200AE Series

Chip LED

0.35mm Thickness, Super Thin Type High-Luminosity Chip LED

Features

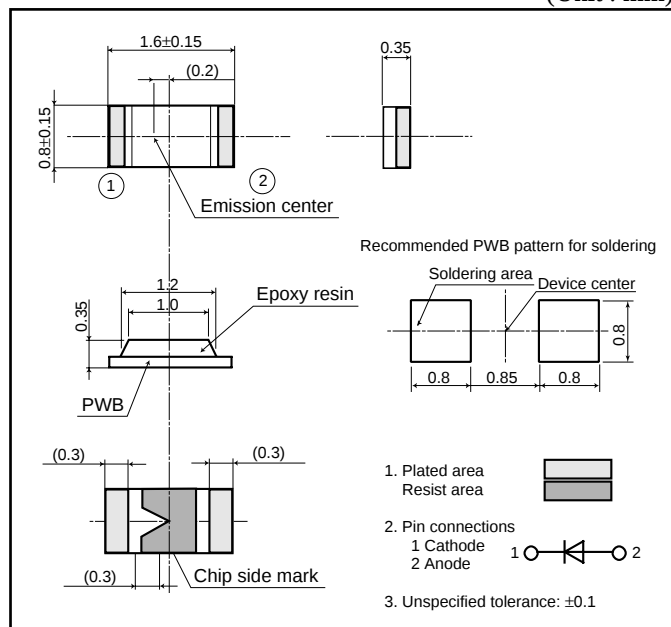
- (1) 4-element, high-luminosity chip LED
- (2) Outline dimensions: $1.6 \times 0.8 \times 0.35$ mm
- (3) Comes in 4 colors
- (4) Taped product (6 000 pcs/reel)

Applications

- (1) LCD backlight for cellular phone
- (2) LCD backlight for various portable equipment
- (3) Backlight for membrane switch

Outline Dimensions

(Unit : mm)



Absolute Maximum Ratings

(Ta=25°C)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current I _F (mA)	Peak forward current I _{FM} *1 (mA)	Derating factor (mA/°C)		Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)	Soldering temperature T _{sol} *2 (°C)
						DC	Pulse				
GM1JR35200AE	Red	AlGaInP on GaAs	52	20	40	0.27	0.53	5	-30 to +85	-40 to +100	350
GM1JJ35200AE	Orange	AlGaInP on GaAs	52	20	40	0.27	0.53	5	-30 to +85	-40 to +100	350
GM1JS35200AE	Sunset-orange	AlGaInP on GaAs	52	20	40	0.27	0.53	5	-30 to +85	-40 to +100	350
GM1JV35200AE	Amber	AlGaInP on GaAs	52	20	40	0.27	0.53	5	-30 to +85	-40 to +100	350
GM1JE35200AE	Yellow-green	AlGaInP on GaAs	52	20	40	0.27	0.53	5	-30 to +85	-40 to +100	350

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

*2 For 3s or less at the temperature of hand soldering.

Electro-optical Characteristics

(I_F=5mA, Ta=25°C)

Lens type	Model No.	Forward voltage V _F (V)		Peak emission wavelength λ _p (nm) TYP	Dominant wavelength λ _d (nm) TYP	Luminous intensity I _v (mcd) TYP	Spectrum radiation bandwidth Δλ (nm) TYP	Reverse current		Terminal capacitance	
		TYP	MAX					I _R (μA) MAX	V _R (V)	C _t (pF) TYP	(MHz)
Colorless transparency	GM1JR35200AE	2.0	2.6	638	630	13	15	100	4	60	1
	GM1JJ35200AE	2.0	2.6	627	618	19	15	100	4	60	1
	GM1JS35200AE	2.0	2.6	609	605	19	15	100	4	60	1
	GM1JV35200AE	2.0	2.6	591	588	18.8	15	100	4	60	1
	GM1JE35200AE	2.0	2.6	575	572	13	15	100	4	60	1

(Notice)

- In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.
- Specifications are subject to change without notice for improvement.
- (Internet)
- Data for Sharp's optoelectronic is provided on internet. (Address <http://sharp-world.com/ecg/>)

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