

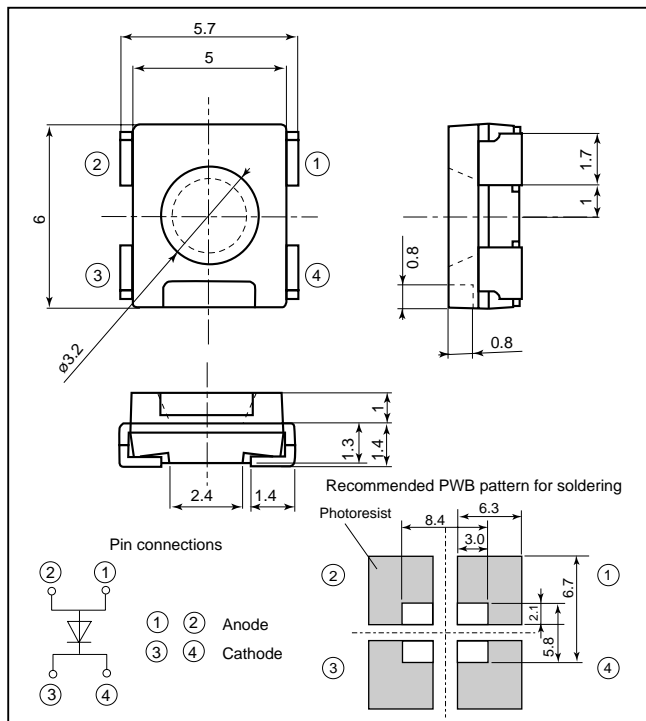
GM5Y□01210A series

(Under development)

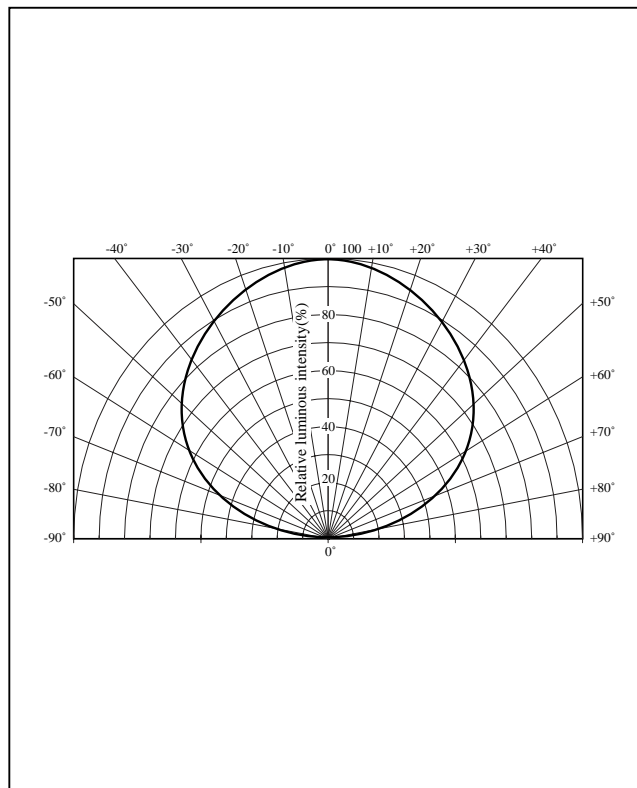
6050 Size, 2.4mm Thickness, Leadless Chip LED

Outline Dimensions

(Unit : mm)



Directive Characteristics



Absolute Maximum Ratings

($T_a=25^{\circ}\text{C}$)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current I_F (mA)	Peak forward current I_{FM}^{*1} (mA)	Derating factor ($\text{mA}/^{\circ}\text{C}$)		Reverse voltage V_R (V)	Operating temperature T_{opr} ($^{\circ}\text{C}$)	Storage temperature T_{stg} ($^{\circ}\text{C}$)	Soldering temperature T_{sol}^{*2} ($^{\circ}\text{C}$)
						DC	Pulse				
GM5YJ01210A	Orange	AlGaInP on GaAs	320	100	120	1.18	1.41	5	-55 to +100	-55 to +100	295
GM5YS01210A	Sunset orange	AlGaInP on GaAs	320	100	120	1.18	1.41	5	-55 to +100	-55 to +100	295
GM5YV01210A	Amber	AlGaInP on GaAs	320	100	120	1.18	1.41	5	-55 to +100	-55 to +100	295

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

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

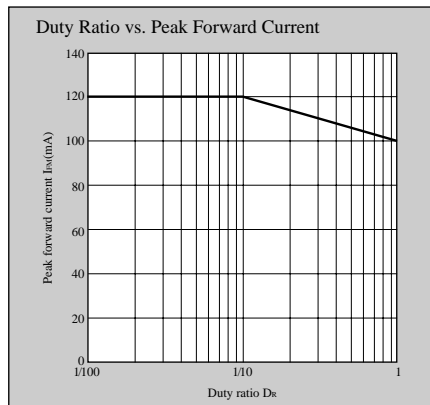
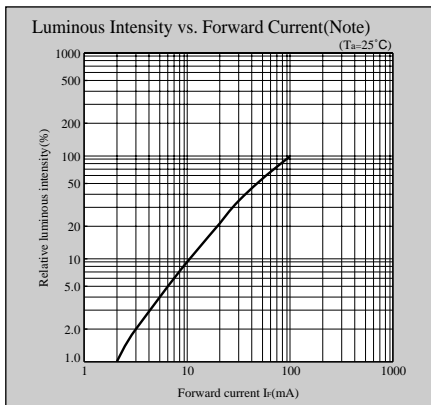
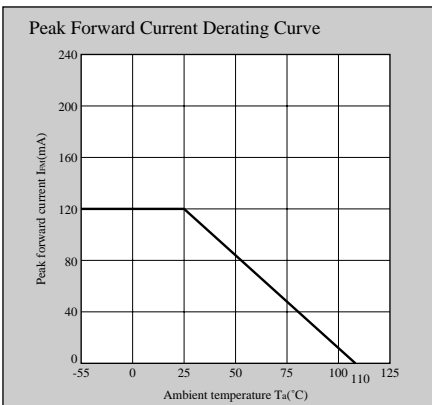
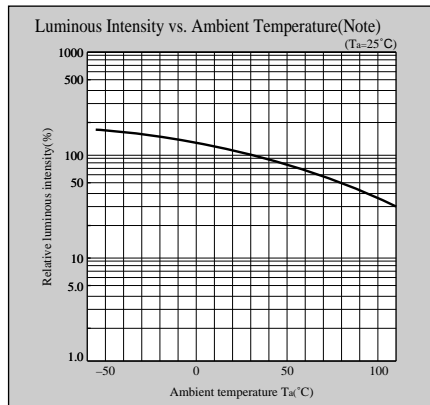
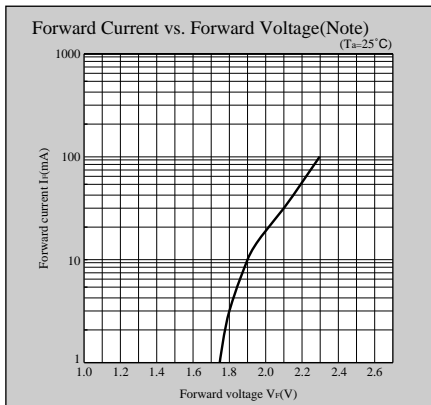
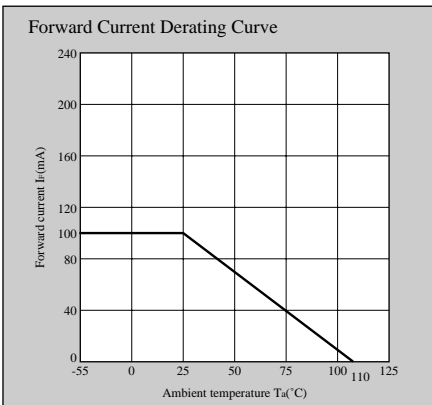
Electro-optical Characteristics

($I_F=90\text{mA}, T_a=25^{\circ}\text{C}$)

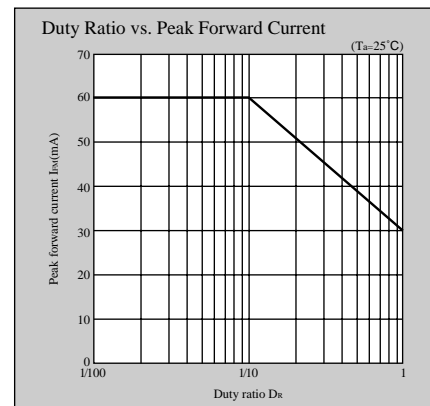
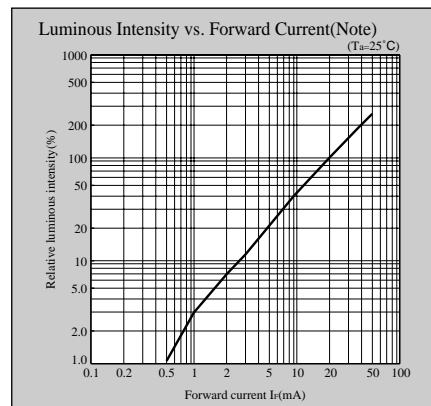
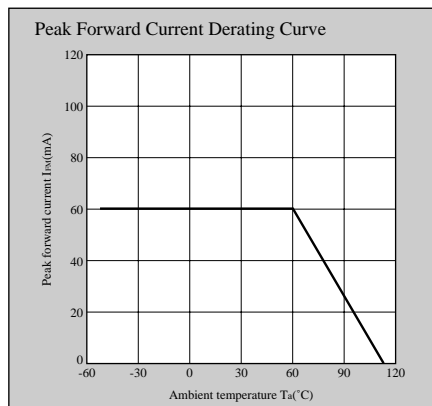
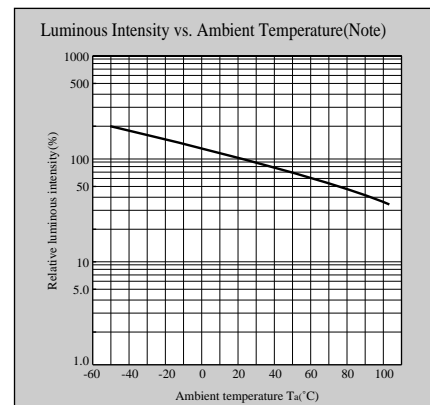
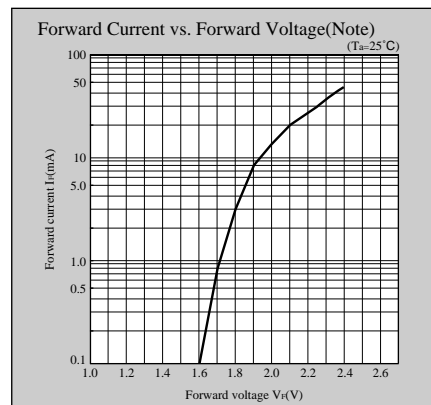
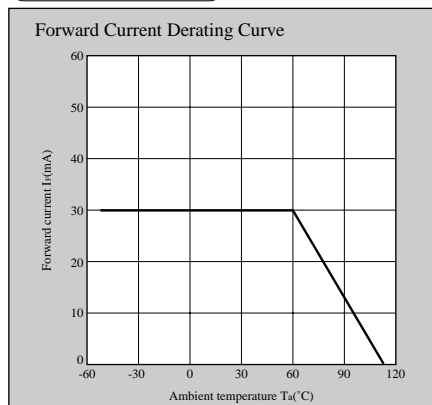
Lens type	Model No.	Forward voltage V_F (V)		Peak emission wavelength λ_P (nm) TYP	Dominant wavelength λ_d (nm) TYP	Luminous intensity I_V (mcd) TYP	Spectrum radiation bandwidth $\Delta\lambda$ (nm) TYP	Reverse current		Page for characteristics diagrams
		TYP	MAX					I_R (μA) MAX	V_R (V)	
Colorless transparency	GM5YJ01210A	2.3	3.2	627	619	(1500)	18	100	4	64
	GM5YS01210A	2.3	3.2	616	606	(1700)	18	100	4	64
	GM5YV01210A	2.3	3.2	592	589	(1300)	18	100	4	64

Characteristics Diagrams

GM5Y□01210A series



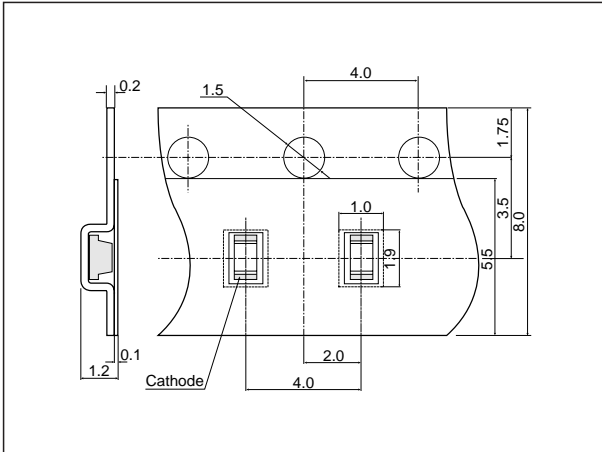
LT1Z□95A series



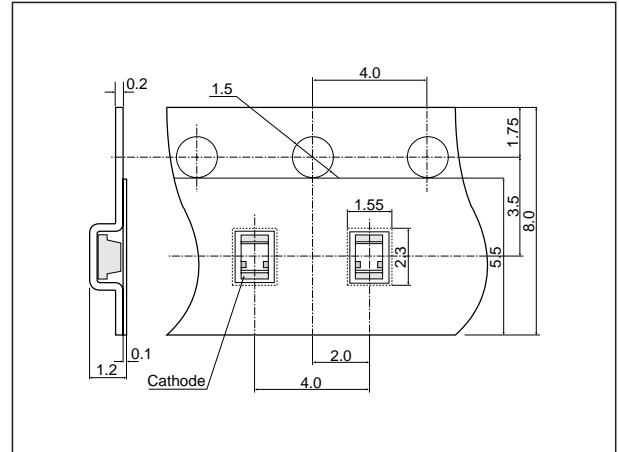
Note) Characteristics shown in diagrams are typical values. (not assurance value)

Taping Specifications

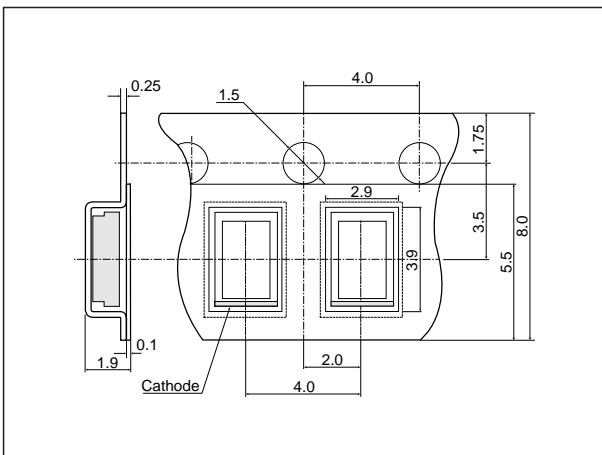
(Unit : mm)



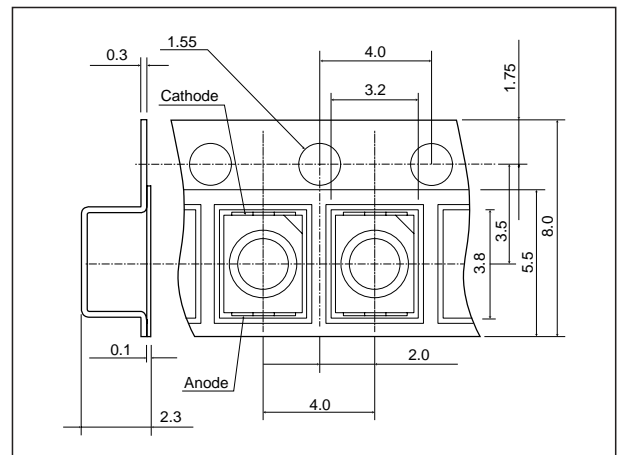
GM1□□35200A□ series 6 000 pcs. /reel
 GM1□□55200A□ series 5 000 pcs. /reel
 LT1□□67A series 4 000 pcs. /reel
 LT1□97A series 5 000 pcs. /reel



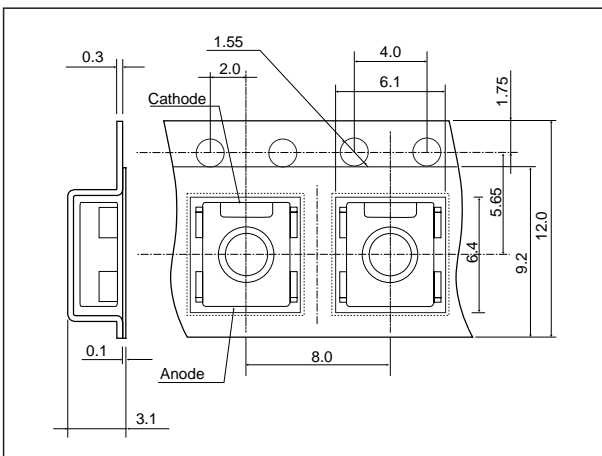
GM1□□40300AE series/LT1□□40A series 4 000 pcs. /reel



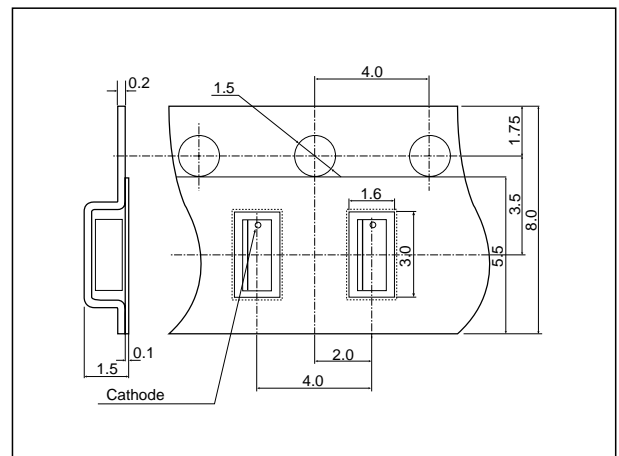
LT1□90A series 3 000 pcs. / reel



GM5□□95200A□ series/LT1Z□95A series 2 000 pcs. /reel



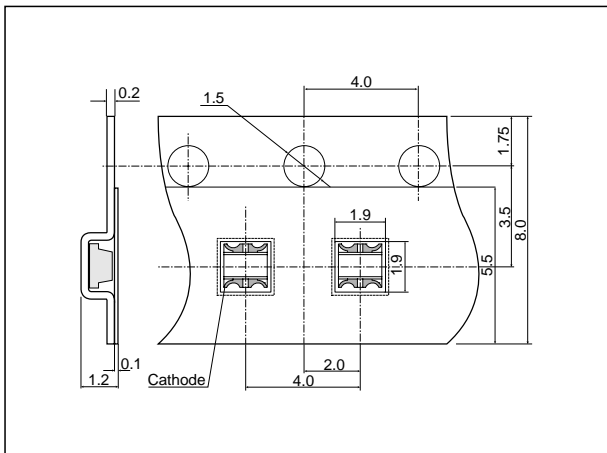
GM5□□01200A series/GM5WA02200A/GM5WA06210A/
 GM5WA06250A 800 pcs. / reel



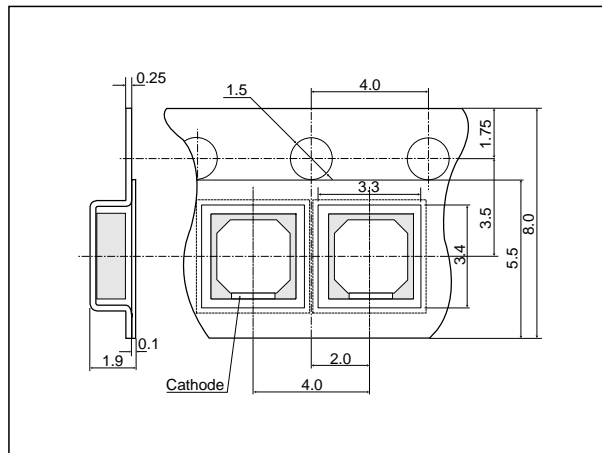
LT1□□45A series/GM4□C13300AC series 3 000 pcs. /reel

Taping Specifications

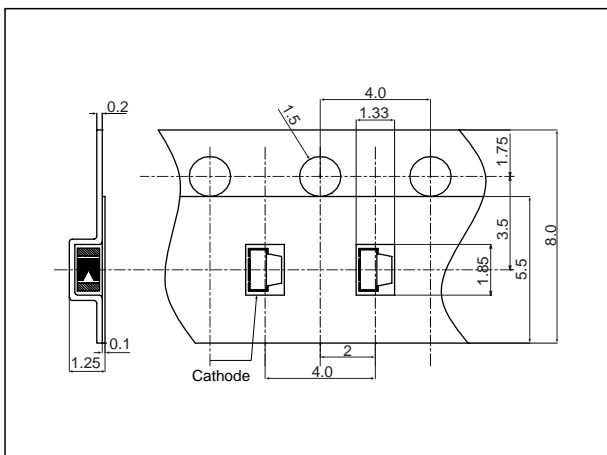
(Unit : mm)



LT1□□67A series/GM1WA80350A/GM1ZUB 80300A/GM1ZSG80300A
4 000 pcs./reel

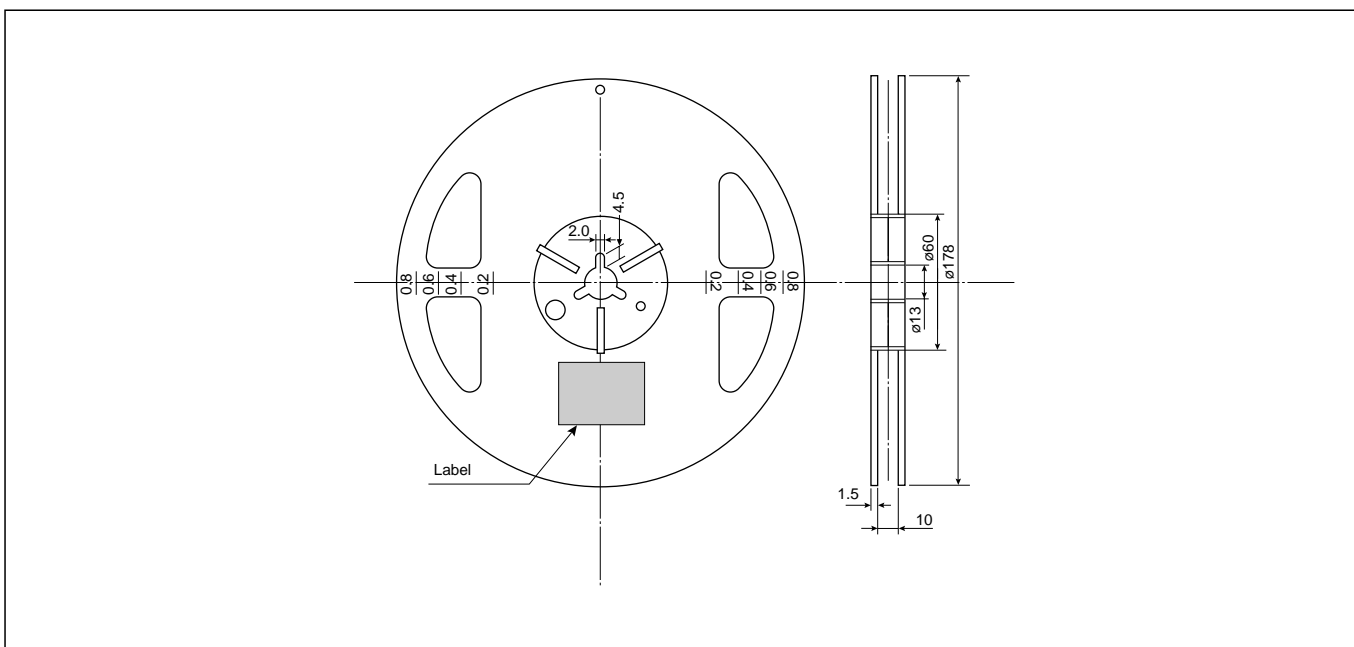


LT1□□90A series 3 000 pcs./reel



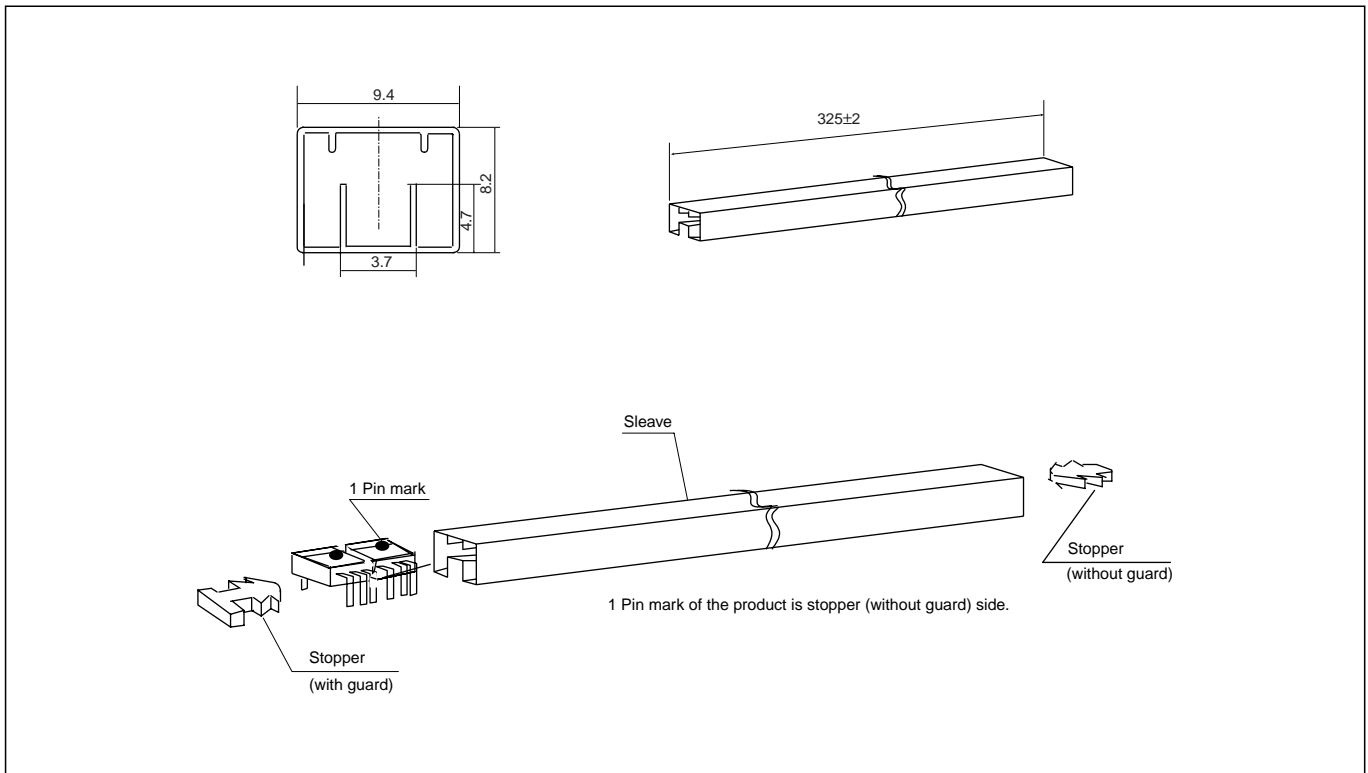
GM4□□81200A□ series 4 000 pcs./reel

■ Shape and dimension of reel



Taping Specifications

■Lead type Chip LED (Unit : mm)



GM5□□03200Z series/GM5WA06200Z/GM5WA06250Z 1 000 pcs. (50 pcs./sleeve × 20)

NOTICE

- The circuit application examples in this publication are provided to explain representative applications of SHARP devices and are not intended to guarantee any circuit design or license any intellectual property rights. SHARP takes no responsibility for any problems related to any intellectual property right of a third party resulting from the use of SHARP's devices.
- Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device. SHARP reserves the right to make changes in the specifications, characteristics, data, materials, structure, and other contents described herein at any time without notice in order to improve design or reliability. Manufacturing locations are also subject to change without notice.
- Observe the following points when using any devices in this publication. SHARP takes no responsibility for damage caused by improper use of the devices which does not meet the conditions and absolute maximum ratings to be used specified in the relevant specification sheet nor meet the following conditions:
 - (i) The devices in this publication are designed for use in general electronic equipment designs such as:
 - Personal computers
 - Office automation equipment
 - Telecommunication equipment [terminal]
 - Test and measurement equipment
 - Industrial control
 - Audio visual equipment
 - Consumer electronics
 - (ii) Measures such as fail-safe function and redundant design should be taken to ensure reliability and safety when SHARP devices are used for or in connection with equipment that requires higher reliability such as:
 - Transportation control and safety equipment (i.e., aircraft, trains, automobiles, etc.)
 - Traffic signals
 - Gas leakage sensor breakers
 - Alarm equipment
 - Various safety devices, etc.
 - (iii) SHARP devices shall not be used for or in connection with equipment that requires an extremely high level of reliability and safety such as:
 - Space applications
 - Telecommunication equipment [trunk lines]
 - Nuclear power control equipment
 - Medical and other life support equipment (e.g., scuba).
- If the SHARP devices listed in this publication fall within the scope of strategic products described in the Foreign Exchange and Foreign Trade Law of Japan, it is necessary to obtain approval to export such SHARP devices.
- This publication is the proprietary product of SHARP and is copyrighted, with all rights reserved. Under the copyright laws, no part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, in whole or in part, without the express written permission of SHARP. Express written permission is also required before any use of this publication may be made by a third party.
- Contact and consult with a SHARP representative if there are any questions about the contents of this publication.