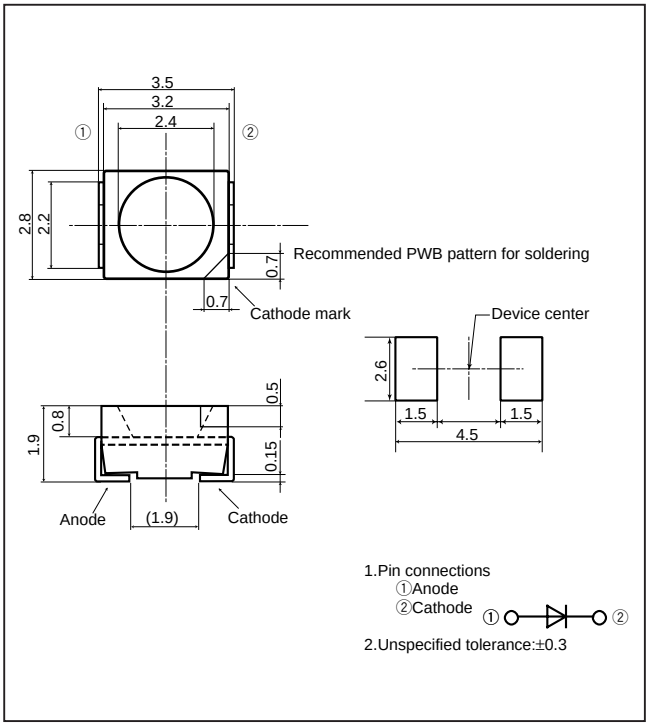
GM5J❑95200AE series

3528 Size, 1.9mm Thickness, Leadless Chip LED

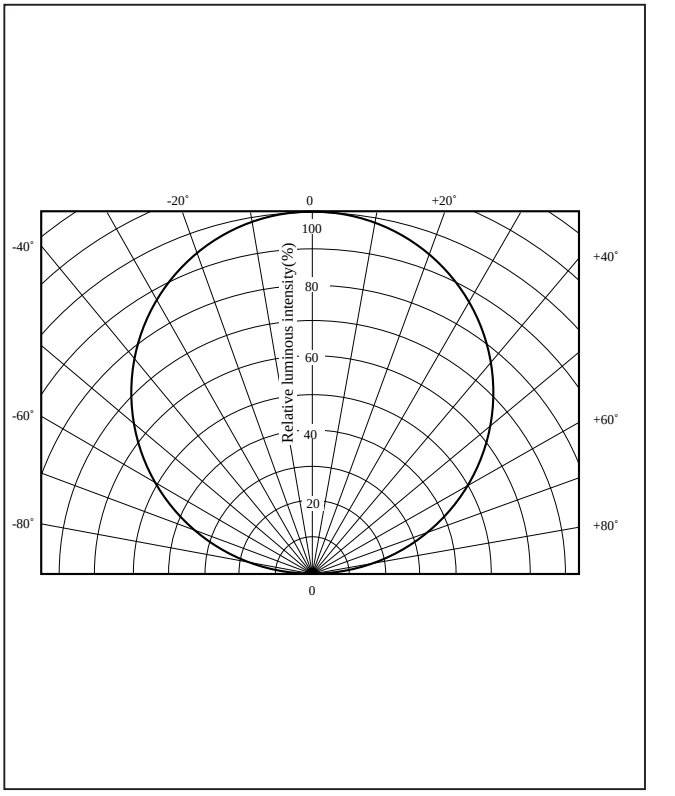
■ Outline Dimensions

(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) DC	Derating factor (mA/˚C) Pulse	Reverse voltage VR (V)	Operating temperature Topr (˚C)	Storage temperature Tstg (˚C)	Soldering temperature Tsol*2 (˚C)
GM5JJ95200AE	Orange	AlGaInP on GaAs	65	25	50	0.50	1.00	5	-55 to +110	-55 to +110	295
GM5JS95200AE	Sunset orange	AlGaInP on GaAs	65	25	50	0.50	1.00	5	-55 to +110	-55 to +110	295
GM5JV95200AE	Amber	AlGaInP on GaAs	65	25	50	0.50	1.00	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

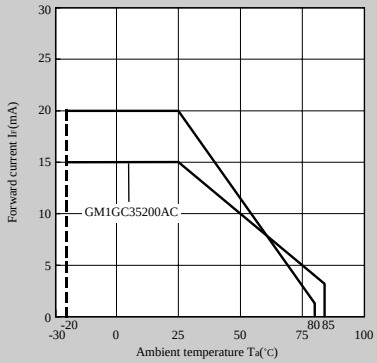
(IF=20mA,Ta=25˚C)

Lens type	Model No.	Forward voltage VF(V) TYP	Forward voltage VF(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 IR(μA) MAX	Reverse current VR (V)	Terminal capacitance Ct(pF) TYP	Terminal capacitance (MHz)	Page for characteristics diagrams
Colorless transparency	GM5JJ95200AE	2.2	2.6	623	618	70	15	100	4	60	1	61
	GM5JS95200AE	2.2	2.6	609	605	90	15	100	4	60	1	62
	GM5JV95200AE	2.2	2.6	590	588	80	15	100	4	60	1	62

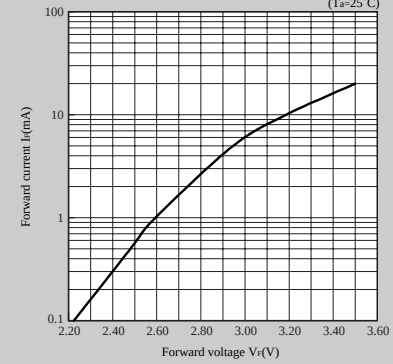
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GM1BC35200AC/GM1GC35200AC/GM4BC13300AC/GM4GC13300AC/GM1ZVB80300A/GM1ZSG80300A

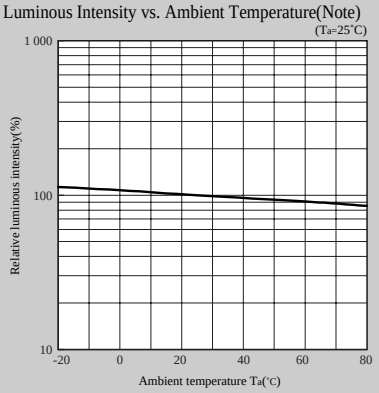
Forward Current Derating Curve



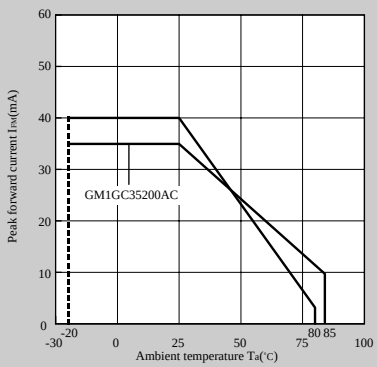
Forward Current vs. Forward Voltage(Note)



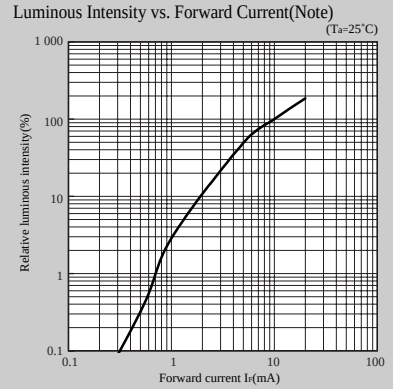
Luminous Intensity vs. Ambient Temperature(Note)



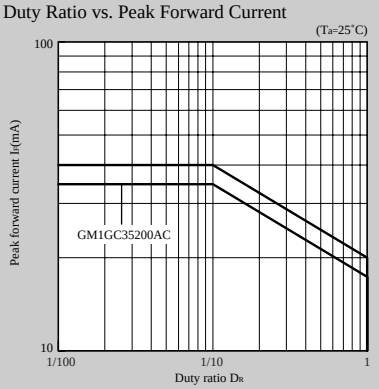
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

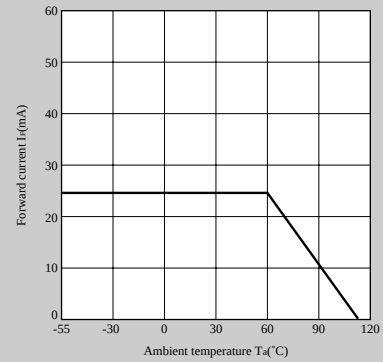


Duty Ratio vs. Peak Forward Current

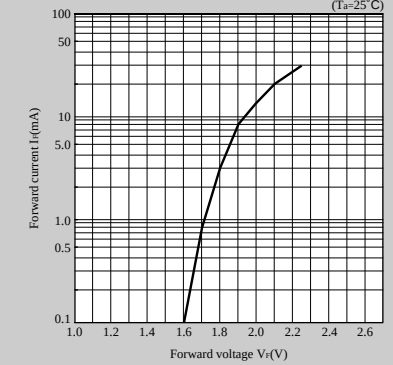


GM5JJ95200AE

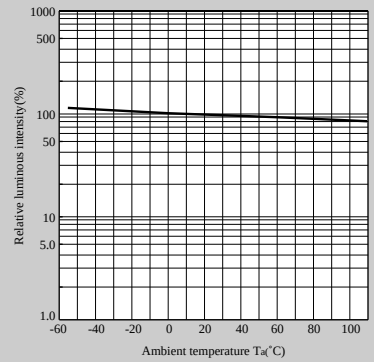
Forward Current Derating Curve



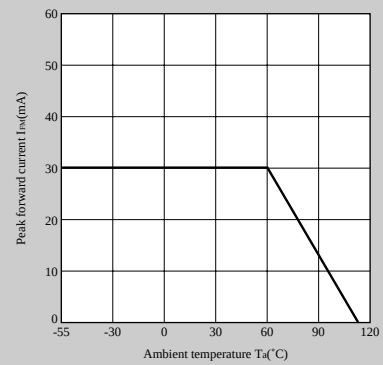
Forward Current vs. Forward Voltage(Note)



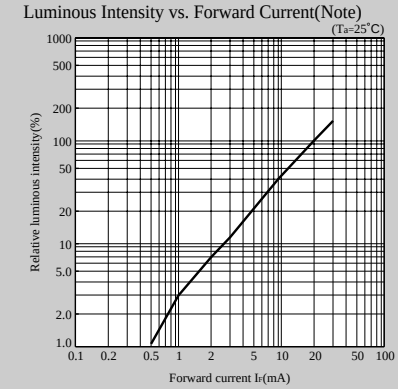
Luminous Intensity vs. Ambient Temperature(Note)



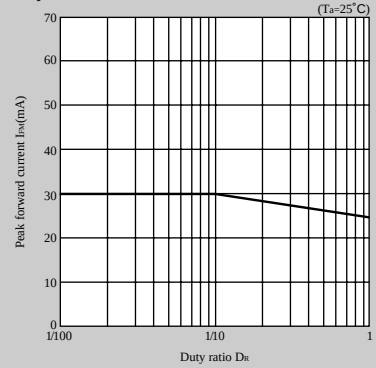
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current



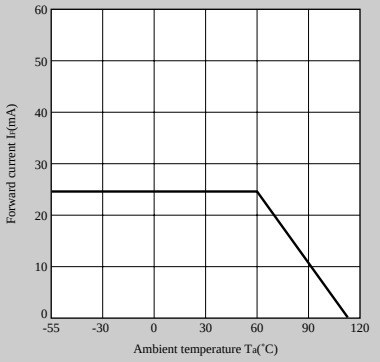
Note)Characteristics shown in diagrams are typical values. (not assurance value)

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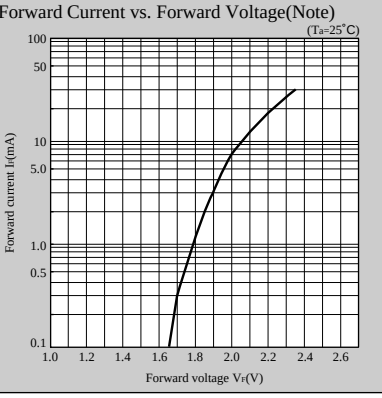
Characteristics Diagrams

GM5JS95200AE

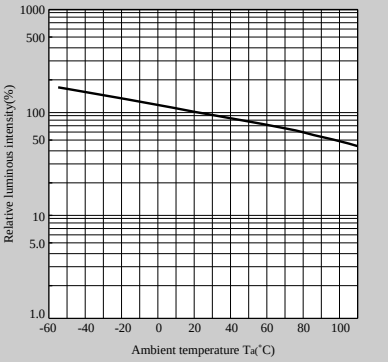
Forward Current Derating Curve



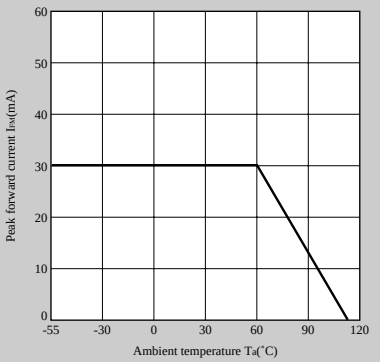
Forward Current vs. Forward Voltage(Note)



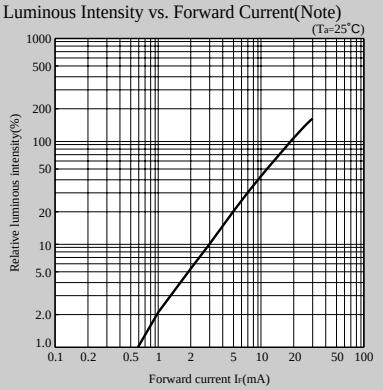
Luminous Intensity vs. Ambient Temperature(Note)



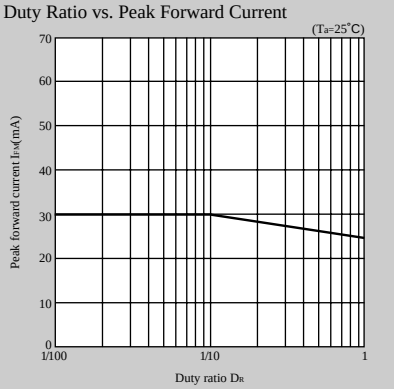
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

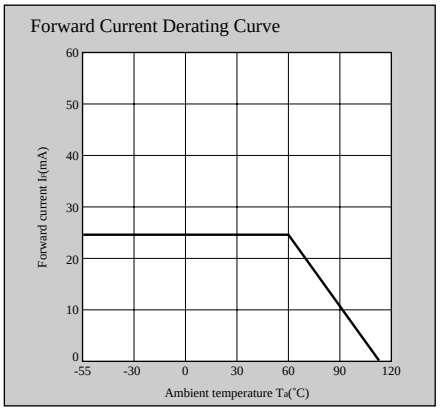


Duty Ratio vs. Peak Forward Current

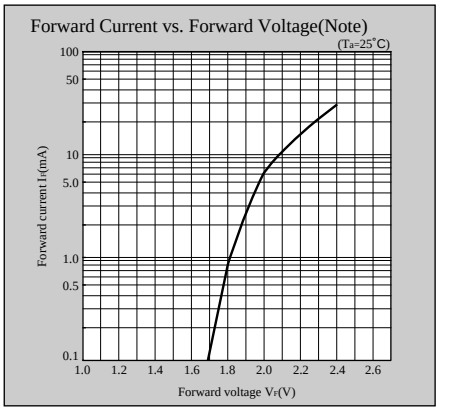


GM5JV95200AE

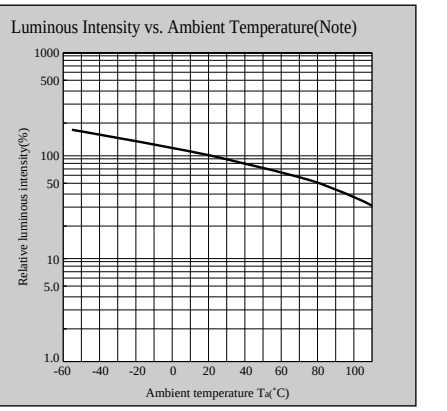
Forward Current Derating Curve



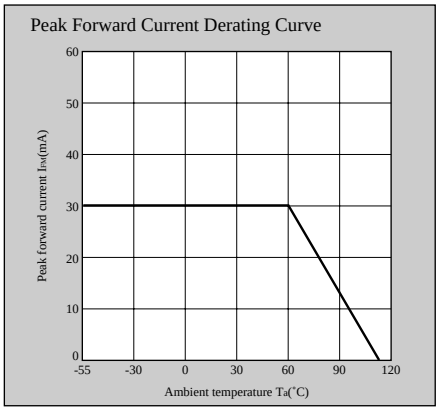
Forward Current vs. Forward Voltage(Note)



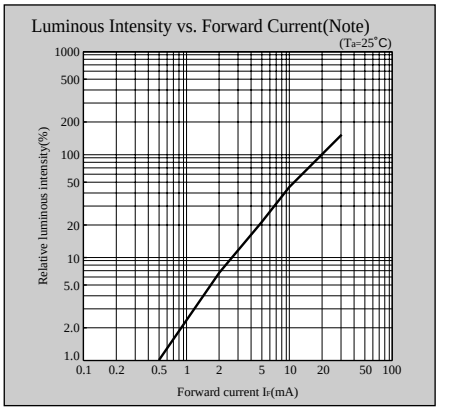
Luminous Intensity vs. Ambient Temperature(Note)



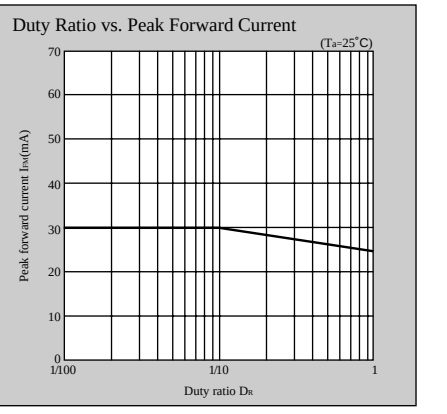
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current

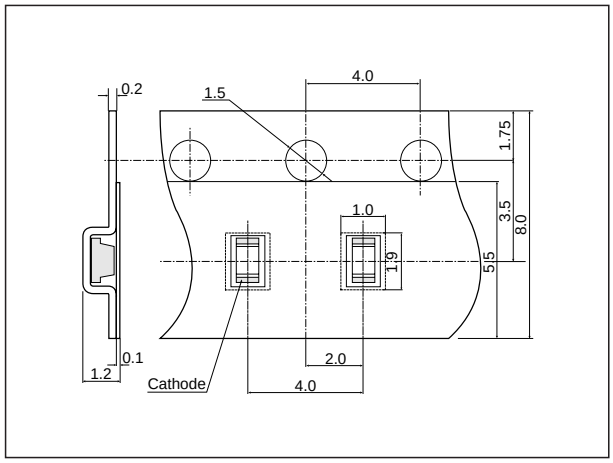


Note)Characteristics shown in diagrams are typical values. (not assurance value)

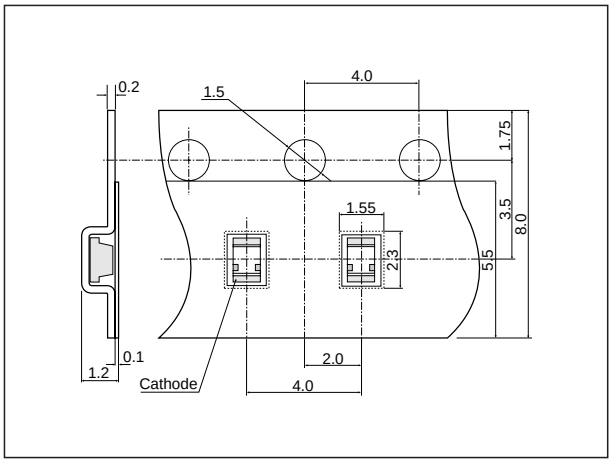
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Taping Specifications

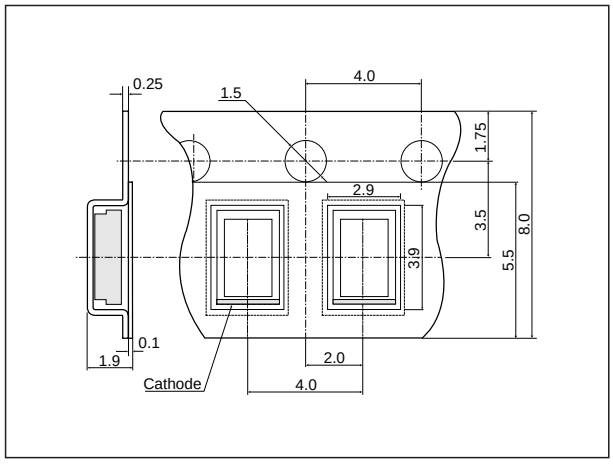
(Unit : mm)



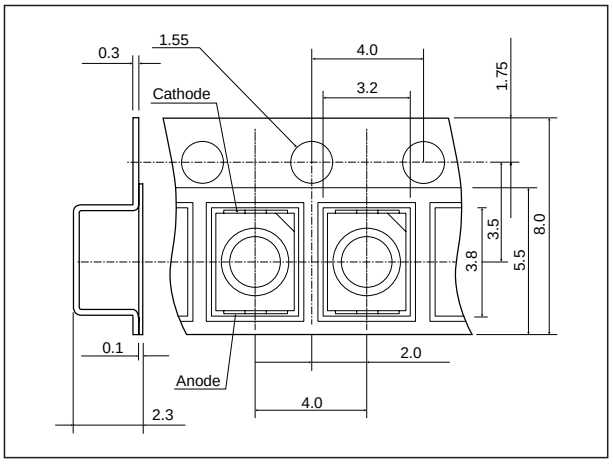
GM1❑❑35200A❑ series 6 000 pcs. /reel
GM1❑❑55200A❑ series 5 000 pcs. /reel
LT1❑❑67A series 4 000 pcs. /reel
LT1❑97A series 5 000 pcs. /reel



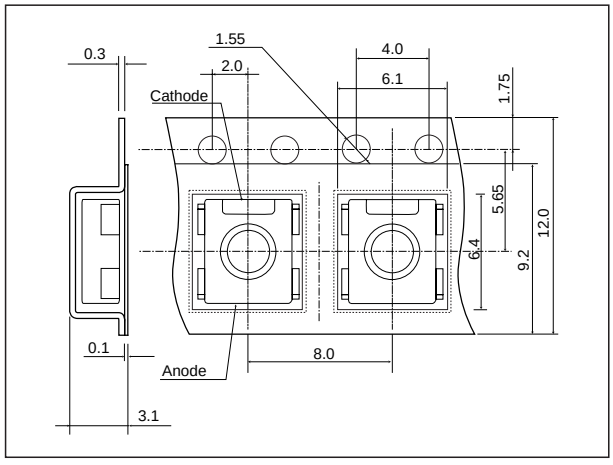
GM1❑❑40300AE series/LT1❑❑40A series 4 000 pcs. /reel



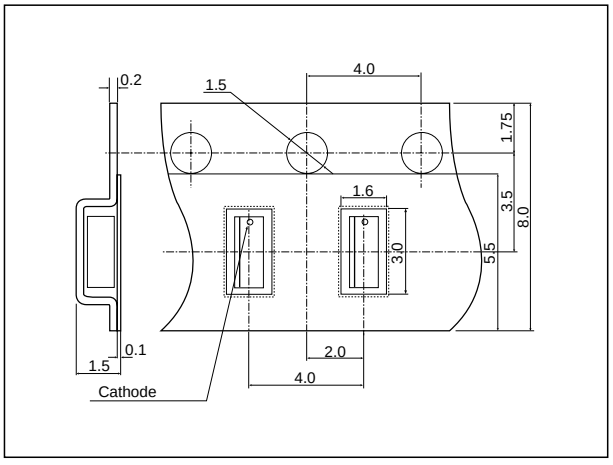
LT1❑90A series 3 000 pcs. / reel



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



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

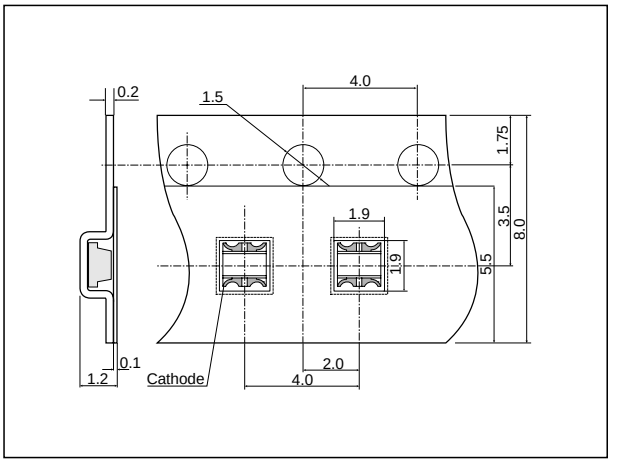


LT1❑❑45A series/GM4❑C13300AC series 3 000 pcs. /reel

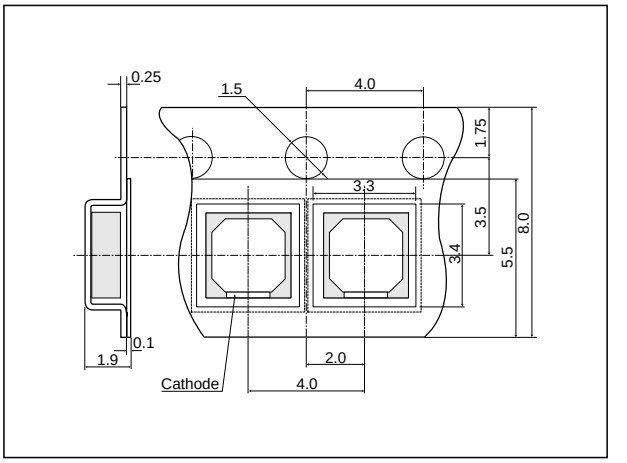
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Taping Specifications

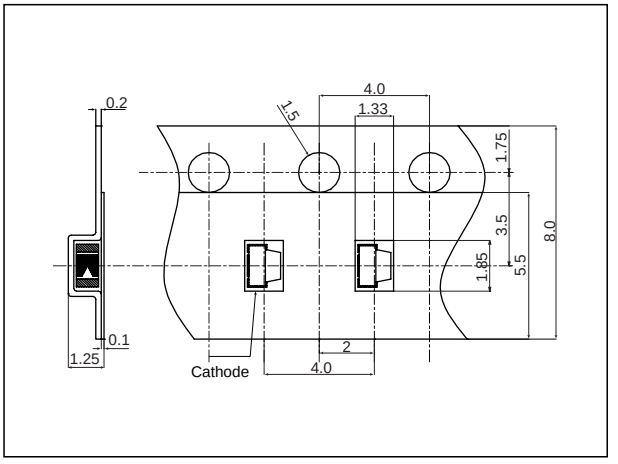
(Unit : mm)



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

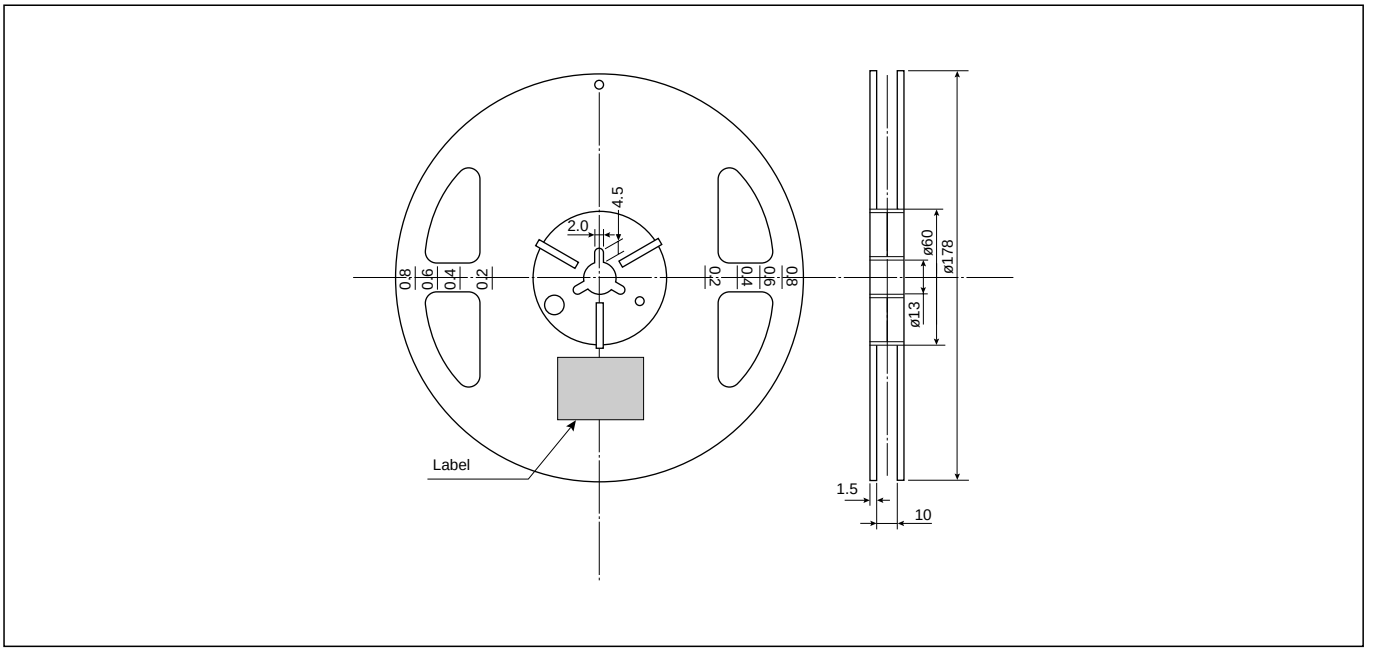


LT1❑❑90A series 3 000 pcs. / reel



GM4❑❑81200A❑ series 4 000 pcs. /reel

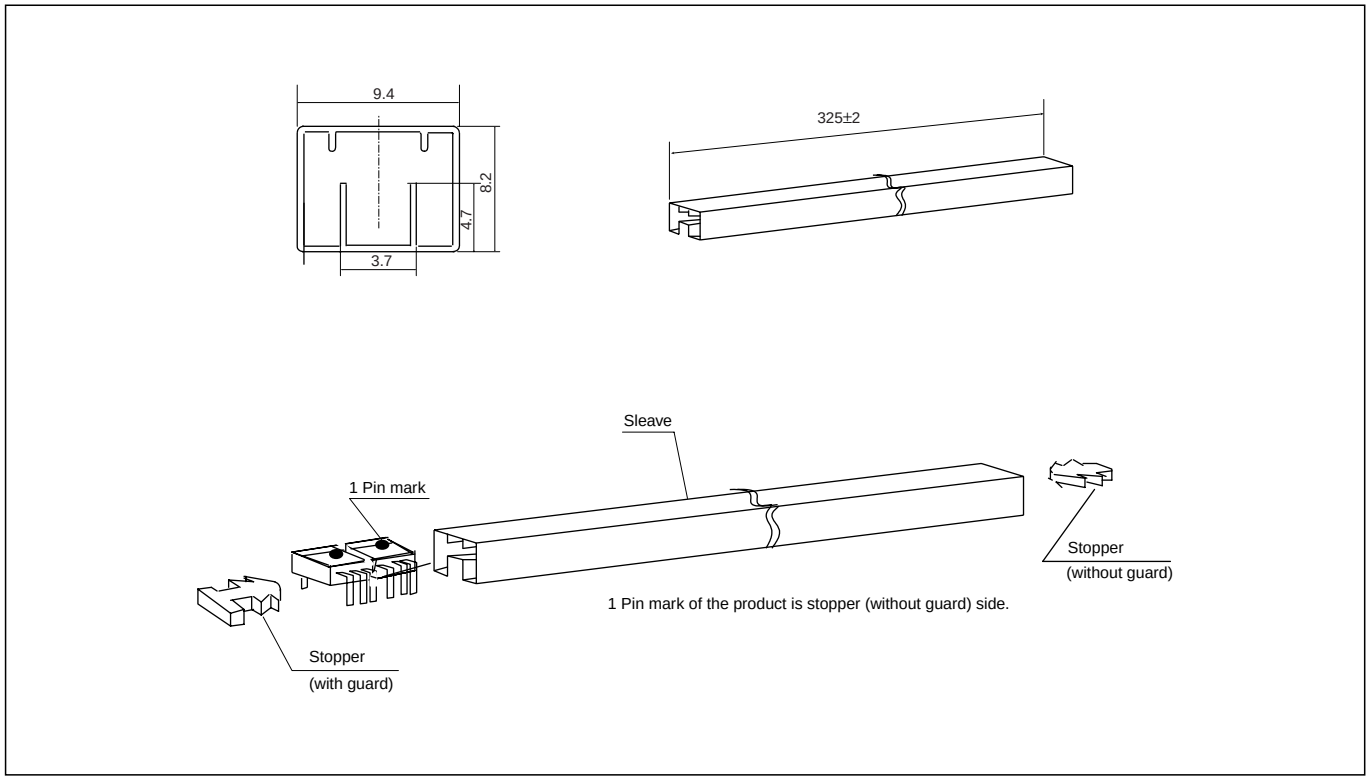
■ Shape and dimension of reel



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Taping Specifications

■Lead type Chip LED (Unit : mm)



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

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— 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:
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— Traffic signals
— Gas leakage sensor breakers
— Alarm equipment
— Various safety devices, etc.

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— Telecommunication equipment [trunk lines]
— Nuclear power control equipment
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