EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

SMD 3528 LED SERIES

OF-SMD3528R RED

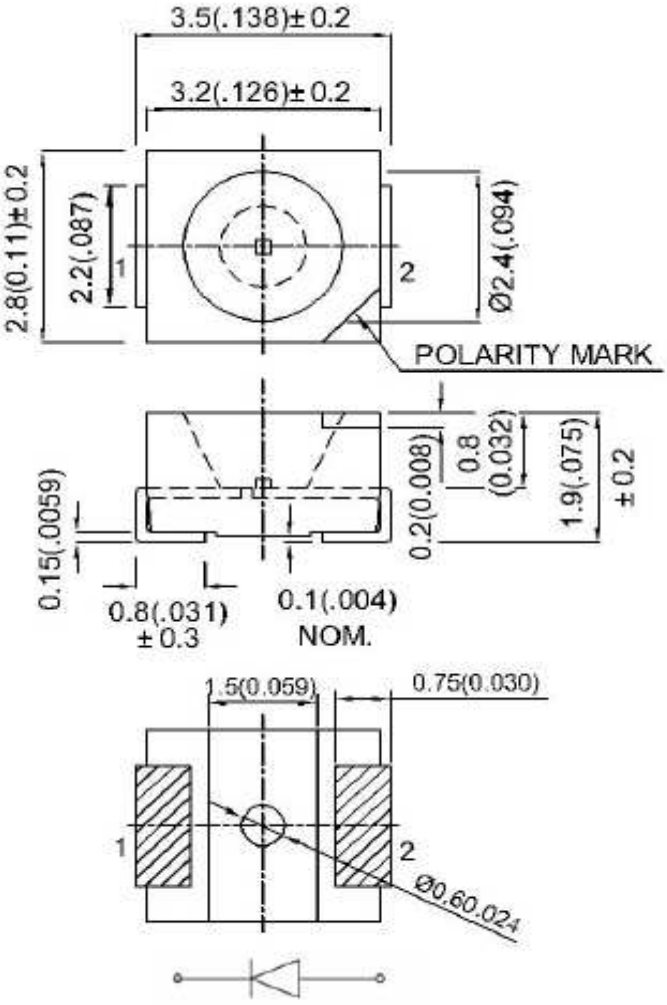
ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



Description
The Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Red Light Emitting Diode.

Features
- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE : 2000PCS / REEL.

Package Dimensions



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Notes:

1. All dimension units are millimeters.
2.All dimension tolerance is ±0.2mm unless otherwise noted.
3.An epoxy meniscus may extend about 1.5mm down the leads.
4.Burr around bottom of epoxy may be 0.5mm max..

Selection Guide

Part. No	Dice	Lens Type	Iv(mcd) @20mA		Viewing Angle
			Min.	Typ.	2Θ1/2
OF-SMD3528R	RED(GaAsP/GaP)	Water Clear	240	350	120°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25℃

Parameter	Symbol	Device	Condition	Min	Typ	Unit
Forward Voltage DC	VF	Red	IF=20mA	1.6	1.9	V
Reverse Current	IR	Red	VR=5V		5	uA
Dominant Wavelength	λD	Red	IF=20mA	623	627	nm
Capacitance	IF(rec)	Red	VF-0V; f=1MHz		35	pF

Absolute Maximum Ratings at TA=25℃

Parameter	Red	Units
Power Disspation	65	mW
DC Forward Current	30	mA
Peak Forward Current	185	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40℃ to +80℃	

Note:

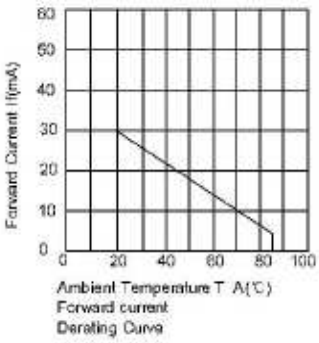
1. **1/10 Duty Cycle, 0.1ms Pulse Width.**

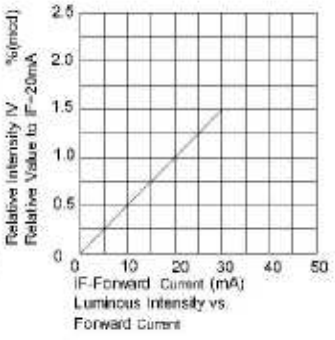
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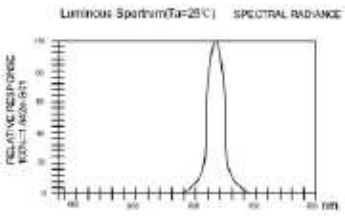
Reliability Test Items And Conditions

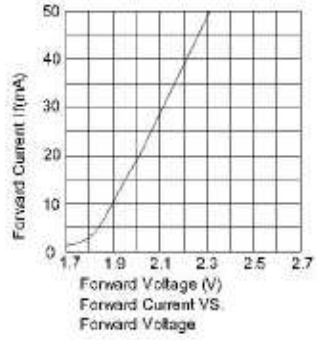
The reliability of products shall be satisfied with items listed below.
Confidence level :90% LTPD :10%

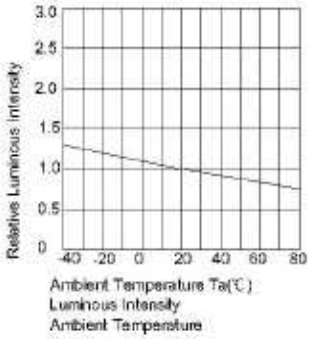
No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Rc
1	Reflow	Temp:240ºC±5ºC Min.5 sec.	6 Min.	22Pcs.	0/1
2	Temperature Cycle	H:+100ºC 15 min. ~ 5 min L:-40ºC 15 min.	300 Cycles	22Pcs.	0/1
3	Thermal Shock	H:+100ºC 5 min. ~ 10 sec. L:-10ºC 5 min.	300 Cycles	22Pcs.	0/1
4	High Temperature Storage	Temp.:100ºC	1000Hrs.	22Pcs.	0/1
5	Low Temperature Storage	Temp.:-55ºC	1000Hrs.	22Pcs.	0/1
6	DC Operating Life	I_F=20mA	1000Hrs.	22Pcs.	0/1
7	High Temperature/High Humidity	85ºC/R.H85%	1000Hrs.	22Pcs.	0/1

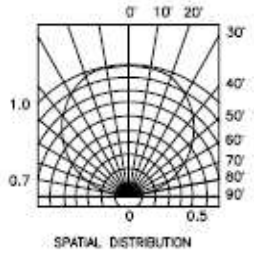








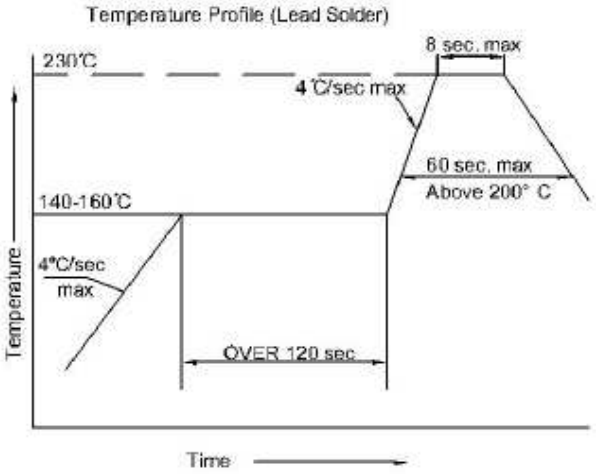


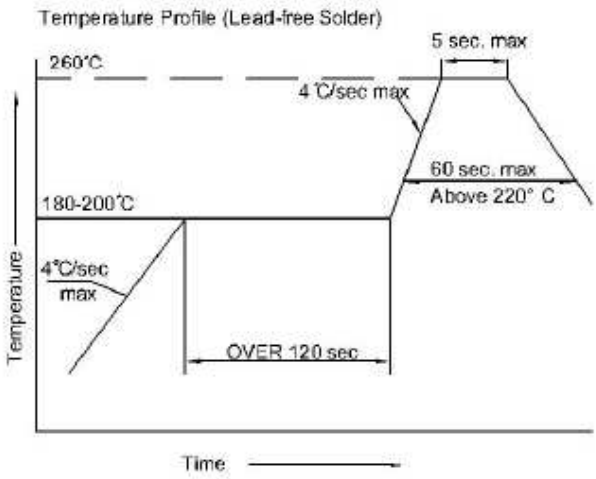


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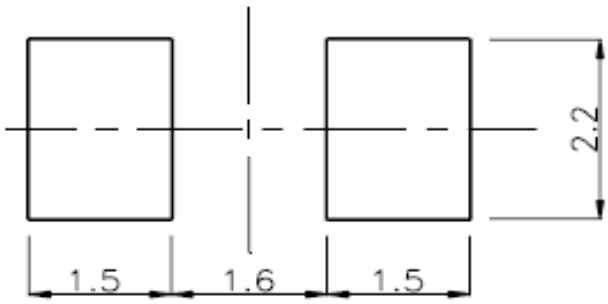
SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.





Recommended Soldering Pattern
(Units : mm)



Tape Specifications
(Units : mm)

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