multicomp PRO



Features

- RoHS Compliant
- Dimensions:1.6mm × 0.8mm × 0.7mm.
- Wide Viewing Angle.

Applications

- · Automotive: Backlighting in dashboard and switch.
- Telecommunication: Indicator and Backlighting in telephone and fax.
- · Flat Backlight for LCD switch and symbol.

Device Selection Guide

Part No.	Chip Material	Emitting Colour
MP005925	(InGaN)	Water clear

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Value	Unit	
Power Dissipation	Po	100	mW	
Forward Current	lF	25	mA	
Peak Forward Current*1	IFP	100	mA	
Reverse Voltage	VR	5	V	
Operating Temperature	Topr	-40°C To +85°C		
Storage Temperature	Tstg	-40°C To +85°C		

Notes:

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Conditions	
Forward Voltage (one circuit)	VF	2.8	_	3.6	V	IF=20mA	
Reverse Current (one circuit)	IR	_	_	10	μA	VR=5V	
Chromaticity Coordinates	Х		0.28	_		IF=20mA	
	Y	_	0.29	_			
Luminous Intensity	lv	385	_	845	mcd	IF=20mA	
Viewing Angle	201/2	_	120	_	Deg.	IF=20mA	

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or chromaticity), the typical accuracy of the sorting process is as follows:

1. Chromaticity Coordinates: ±0.005

2. Luminous Intensity: ±15%3. Forward Voltage: ±0.1V

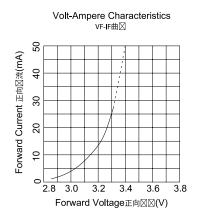
Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro

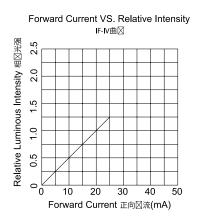


^{*1:} Pulse width≤0.1ms, Duty cycle≤1/10

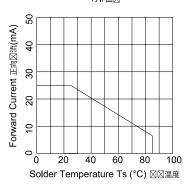
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Typical Electrical/Optical Characteristics Curves

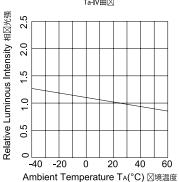




Soldering Temperature VS. Forward Current $_{\mathsf{Ts-IF}}\boxplus\boxtimes$

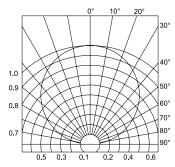


Ambient Temperature VS. Relative Intensity $_{\text{Ta-IV} \boxplus \boxtimes}$



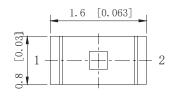
Radiation Diagram

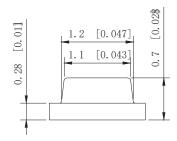
図射特性曲図

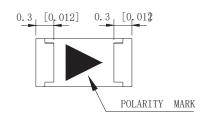


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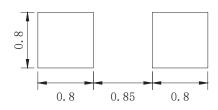
Package Dimensions







Recommended Soldering Pattern



Notes:

- 1. All dimensions are in millimeters.
- 2. Tolerance is ±0.15 unless otherwise noted.
- 3. Specifications are subject to change without notice.

Donk	VF	Condition	
Rank	Min	Max	Condition
G1	2.8	2.9	
G2	2.9	3	
H1	3	3.1	
H2	3.1	3.2	IF=20mA
J1	3.2	3.3	IF-ZUIIA
J2	3.3	3.4	
K1	3.4	3.5	
K2	3.5	3.6	

Tolerance:±0.05V

IV Rank

VF Rank

Rank	IV(n	Condition		
Kank	Min	Max	Condition	
V	650	845		
W	845	1100	IF=20mA	
X	1100	1400		

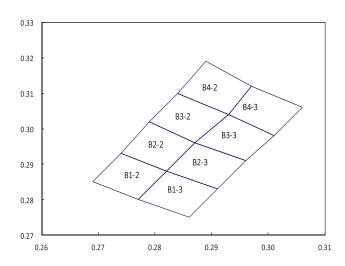
Tolerance:±15%

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X/Y Rank



Bin	х	у	Bin	х	у
B1-2	0.274	0.293	B1-3	0.282	0.288
	0.282	0.288		0.291	0.283
	0.277	0.28		0.286	0.275
	0.269	0.285		0.277	0.28
	0.279	0.302	B2-3	0.287	0.296
B2-2	0.287	0.296		0.296	0.291
DZ - Z	0.282	0.288		0.291	0.283
	0.274	0.293		0.282	0.288
	0.284	0.310		0.293	0.304
B3-2	0.293	0.304	B3-3	0.301	0.298
	0.287	0.296		0.296	0.291
	0.279	0.302		0.287	0.296
	0.289	0.319		0.297	0.312
D4.0	0.297	0.312	B4-3	0.306	0.306
B4-2	0.293	0.304		0.301	0.298
	0.284	0.31		0.293	0.304

Tolerance:±0.005

Part Number Table

Description	Part Number
SMD Chip LED, 0603, White, 1400mcd, 120°	MP005925

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