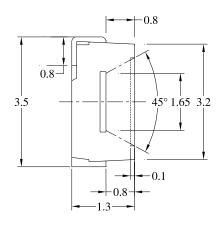
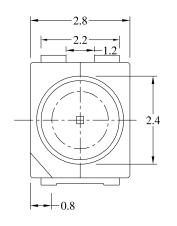
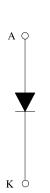
3.2mm × **2.8mm 0.5W SMD Type**

multicomp PRO

Package Dimensions:







RoHS Compliant

All dimensions are in mm Tolerance: ±0.25mm

Absolute Maximum Ratings at Ta=25°C

Parameter		Rating	Unit
LED Junction Temperature	Tj	110	°C
Power Dissipation	Pb	420	mW
Reverse Voltage	VR	5	V
D.C. Forward Current	lf	150	mA
Pulsed Forward Current (1 / 10 Duty Cycle, 0.1ms Pulse Width)	If (Peak)	300	mA
Operating Temperature Range	Topr.	-40 to +75	°C
Storage Temperature Range	Tstg.	-40 to +105	°C
Soldering Temperature	Tsld.	Reflow Soldering: 260°C for 10sec. Hand Soldering: 350°C for 3sec.	
Electric Static Discharge Threshold (HBM)	ESD	6,000	V
Thermal Resistance Junction to Board (Heat Sink)	RФJ-в	26	°C/W

Electrical & Optical Characteristics:

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Flux*	Ф۷	If = 150mA	6	8.5	-	lm
Forward Voltage	V f	If = 150mA	-	2.5	2.8	V
Peak Wavelength	λр	If = 150mA	-	635	-	nm
Dominant Wavelength	λd	If = 150mA	-	624	-	nm
Reverse Current	Ir	Vr = 5V	-	-	50	μΑ
Viewing Angle	2Ф½	If = 150mA	-	120	-	deg
Spectrum Line Halfwidth	Δλ	If = 150mA	-	20	-	nm

Note: *Luminous Flux os converted from Luminous Intensity.

- 1. The data is tested by an IS tester.
- 2. Customer's special requirements are also welcome.

Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro

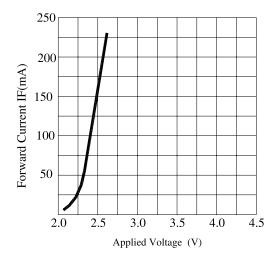


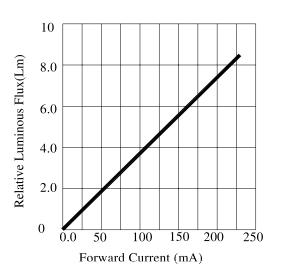
3.2mm × 2.8mm 0.5W SMD Type



Typical Electrical & Optical Characteristics Curves:

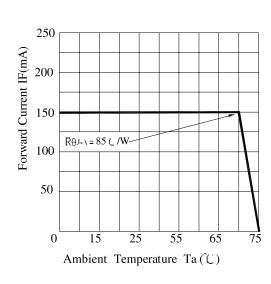
(25°C Ambient temperature unless otherwise noted)

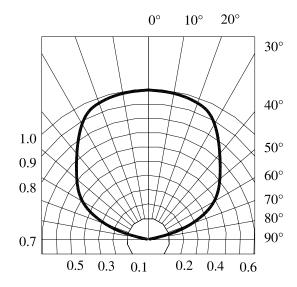




Forward Current VS. Applied Voltage

Forward Current VS. Luminous Intensity





Ambient Temperature VS. Forward Current

Radiation Diagram

3.2mm × **2.8mm 0.5W SMD Type**



Recommended Storage Environment:

- Temperature: 5°C to 30°C (41°F to 86°F)
- · Humidity: 60% RH Max.
- · Use within 7 days after opening of sealed vapour/ESD barrier bags

If moisture absorbent material (silica gel) has faded away or LEDs have exceeded the storage time, baking treatment should be performed using the following conditions:

- · Baking Treatment : 60 ± 5°C for 24 hours
- · Fold the opened bag firmly and keep in dry environment

Soldering

Reflow Soldering			Hand Soldering		
	Lead Solder	Lead-free Solder			
Pre-heat	12°C ~ 150°C	180°C ~ 200°C	Temperature	350°C Max.	
Pre-heat Time	120sec. max.	120sec. max			
Peak Temperature	240°C max.	260°C max.		3sec. Max (one time only)	
Soldering Time	10sec max.	10sec. max	Soldering Time		
Condition	Refer to Temperature Profile 1	Refer to Temperature Profile 2		(

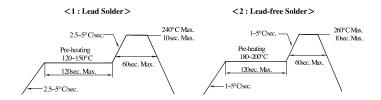
^{*}After reflow soldering rapid cooling should be avoided.

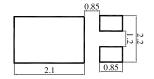
Temperature-profile (surface of circuit board)

Use the conditions shown under figure.

Recommended Soldering Pad Design:

Use the conditions shown under figure.





Part Number Table

LED Chip		Long Colour	Dowt Normals are	
Material	Emitting Colour	Lens Colour	Part Number	
AlGaInP/Si	Hyper Red	Water Clear	703-1035	

Important Notice: This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro

