



DEVETECH ELECTRONICS CO. LTD

SPECIFICATION FOR APPROVAL

CUSTOMER'S CODE:

DVFL1P06QWS1

DESCRIPTION:

Plastic inidcator light

SPECIFICATION:

6mm

DATE:

2016-01-06

PART NO:

DVFL1P06QWS1

REFERENCE No:

DVFL-PZ-W2016-1-5-078

Approved By Customer	Qualified By	Form Designer

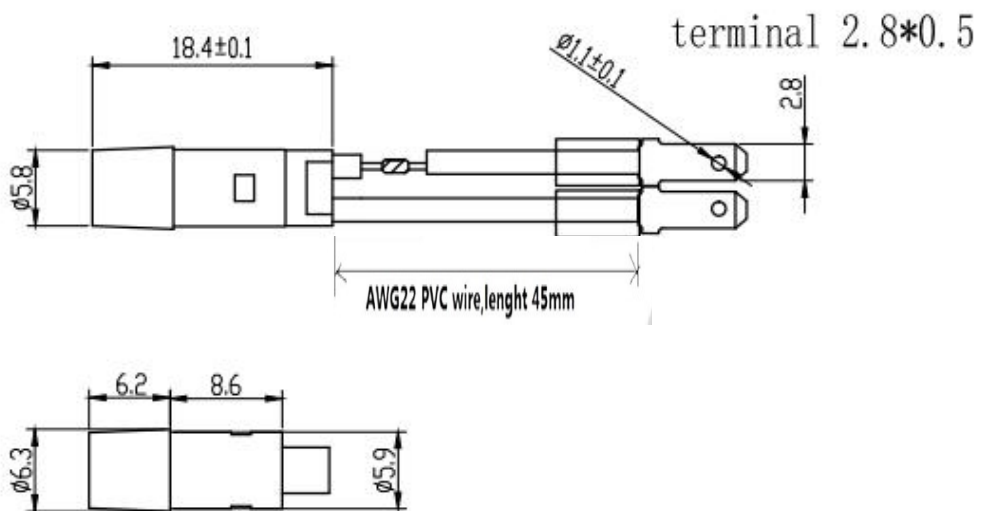


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1. Picture:



2. Drawing





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3 component material

Component name	material
shell	PC plastic
Plastic shell	ABS ABS engineering plastic
Plastic decoration	
metal decoration	
rubber ring	
metal nut	
plastic nut	
lens	PA66 PA66 Nylon
light source	LED
resistor	Metal film
Cable	(Silica gel)、0.3mm ²
plug-in	

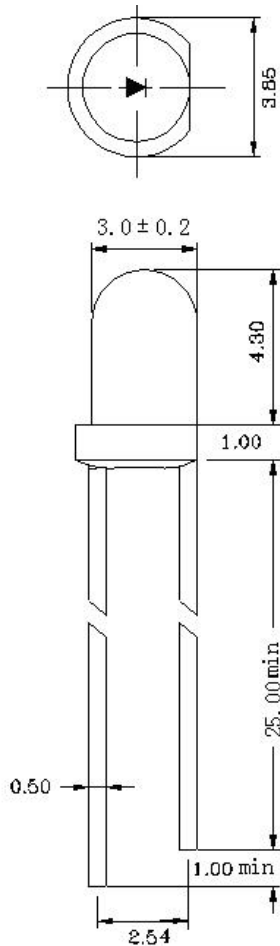
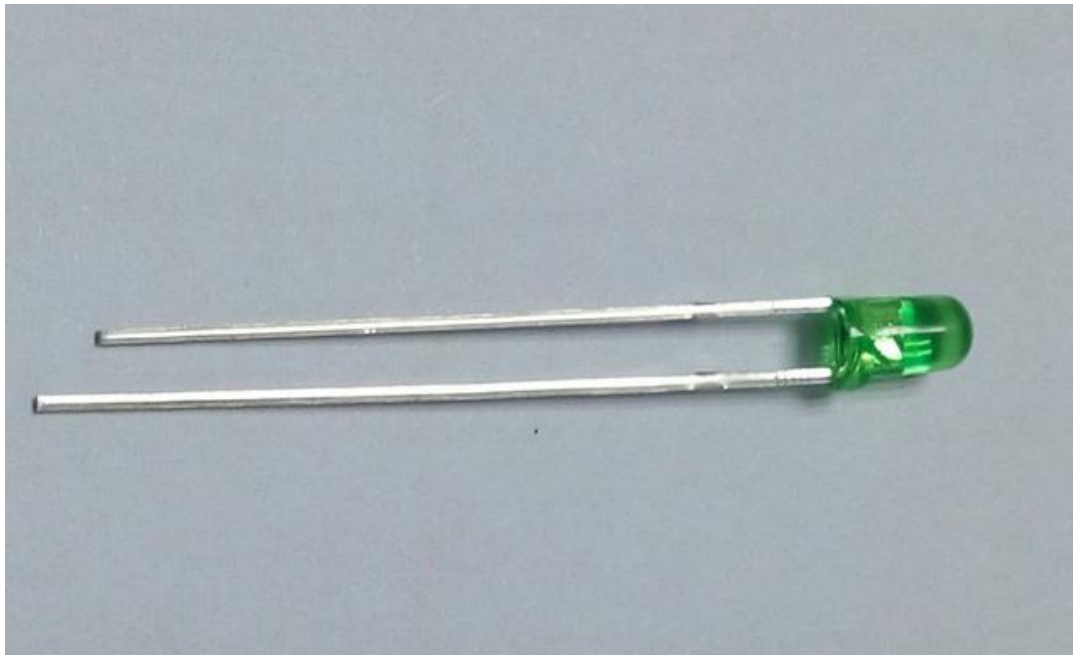
4 performance parameter

items	parameter
Rated voltage	3V-780V DC or AC
rated current	18mA
rated power	0.2W
Insulation and voltage resistance	1800V
working life	100000h
electrical life	100000 次
cold-resistant	-40℃
heat-resisting	80℃



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5. Detailed Picture :



5.LED LED

Specification:



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■ Absolute Maximum Rating

Item	Condition	Time	Number of Damage
Life Test	$T_a = RT., t = 1000hr, I_f = 20 \text{ mA}$	1000Hr	0/22
High Temperature Operating	$T_a = +80 \text{ }^\circ\text{C}, t = 500hr, I_f = 8 \text{ mA}$	1000Hr	0/22
Low Temperature Operating	$T_a = -30 \text{ }^\circ\text{C}, t = 1000hr, I_f = 20 \text{ mA}$	1000Hr	0/22
Temperature Cycle	$T_a = -30 \text{ }^\circ\text{C} \sim +80^\circ\text{C} (1\text{Cycle} = 1hr)$	100Cycles	0/22
Resistance To Soldering Heat	$T_s = 260 \pm 5 \text{ }^\circ\text{C}, t = 5 \pm 1 \text{ sec}$	1Time	0/22



■ Typical Optical/Electrical Characteristics

Parameter	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Forward Voltage	V_F	IF=20mA	1.7		2.1	V
Dominate Wavelength	λ_d	IF=20mA		630		nm
Reverse Current	I_R	$V_R=5V$	-	-	10	uA
Viewing Angle *1	$2\theta_{1/2}$	IF=20mA	-	10	-	deg
Luminous Intensity	I_V	IF=20mA	-	700	-	mcd

Notes:

1. Work absolute ratings Ta=25°C humidity=60%
2. Tolerance of measurement of forward voltage±0.1V
3. Test Machine: SSP6612 series LED test system



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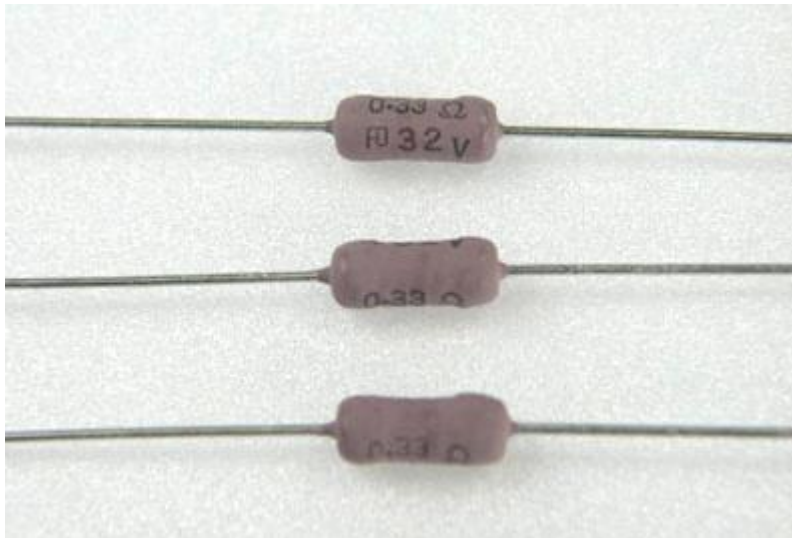
Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Forward Current	I_F	20	mA
Reverse Voltage	V_R	5	V
Operation Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C
Soldering Temperature *2	T_{sol}	Wave Soldering: 260°CFor 5 Sec Hand Solder: 300°CFor Sec	



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6. Resistor Specification (RMS 1/4W 200kΩ):

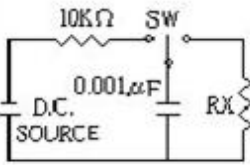
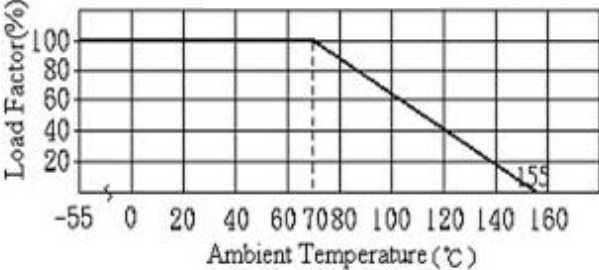
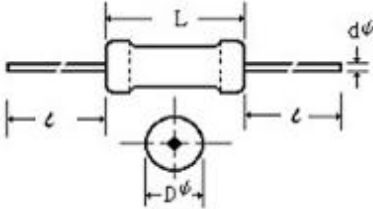


CHARACTERISTICS

ITEM	SPEC	REMARKS
Load life under high temperature	±1.5%	JIS C 5201-1 (4.25.1) Rated voltage at 70°C for 1,000 hours
Load life under high humidity	±5%	JIS C 5201-1 (4.24) Rated voltage at 40°C, 95% RH for 1,000 hours
Temp. coeff of resistance	< 1K=±500 PPM/°C ≅ 100KΩ=±300 ppm/°C >100KΩ=±200 ppm/°C	JIS C 5201-1 Room temp. + 100°C, 30min
Short time overload	±1%	JIS C 5201-1 (4.13) 6.25 times the rated power for 5 seconds
Temperature cycling	±1%	JIS C 5201-1 (4.19) 5 cycles for -25°C±3°C(30min); room temp.(30min) ~ +85°C±3°C(30min) room temp. (30min)
Resistance to soldering heat	±1%	JIS C 5201-1 (4.18) 260°C±5°C for 10 seconds 350°C±10°C for 3.5 seconds
Insulation resistance	>1,000MΩ	JIS C 5201-1 (4.6.1.1) 500 volt Insulation test 1min



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<p>Pulse withstanding voltage</p>	<p>±20%</p>	<p>■The following discharge cycle is repeated in the circuit of the left fig. 2.5 sec. ON 2.5 sec. OFF 50 cycles. With following DC pulse test voltage</p> <p>■ Pulse voltage:1/6W,S1/4W: 3KV. ≧1/4W: 100KΩ: (3KV); 100KΩ-620KΩ: (5KV); > 620KΩ: (10KV)</p> 
<p>DERATING CURVE</p> 		 <p>Various type of forming & taping are available</p> <p>Coating color: RMU1/4W,RMU1/6W \ dark blue, other \ pink ◦</p>

■ CHARACTERISTICS

Model	Power Rating (W)	Resistance Range E-24 Ω	Maximum Working Voltage	Dielectric Withstanding Voltage	Dimension (mm)			
					L	D φ	t	d φ
RMU1/4W RMS1/2W	1/4,1/2	10Ω ~ <100M	1600V	700V	6±0.3	2.4±0.1	28±2	0.6±0.05

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