

PVC電子綫

UL 1007

UL Subject 758 UL FILE NO: E108485
CSA Standard CSA FILE NO: LL84687

HOOK-UP WIRE 80°C 300V

說明:

導體使用單條或絞綫32-16AWG裸銅或鍍錫銅。
使用環保PVC絕緣。
額定溫度: 80°C, 額定電壓: 300Volts。
可通過UL VW-1及CSA FT1垂直型耐燃試驗。

Product Description

Tinned, annealed, stranded or Solid copper Conductor,
32-16AWG.
Lead Free PVC Insulation.
Rated temperature: 80°C; Rated voltage: 300 Volts.
Passes UL VW-1 & CSA FT1 Vertical Flame Test.

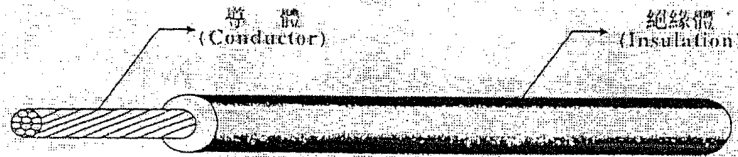
應用:

一般電子、電器設備內部配綫。

Applications

For general purpose internal wiring of electronic and electrical Equipment

構造及電氣性能 (Structure & electric properties)



UL 1007 CSA TR-64	額定 Range		導體 Conductor		絕緣體 Insulation		公差值 Tolerance mm	最大導體阻抗 Maximum Conductor Resistance Ω/km	絕緣耐電壓 (VAC/min) Insulation Potential Strength	
	溫度 Temp °C	電壓 Voltage V	綫號 AWG	構成 NO./mm	厚度 Thickness mm	外徑 O.D. mm				
絞綫 Stranded	UL 80°C	300V	32	7/0.080	0.38	1.00	±0.10	703.0	2000	
			30	7/0.100	0.38	1.10	±0.10	397.0		
	28		7/0.127	0.38	1.20	±0.10	248.0			
	26		7/0.160	0.38	1.30	±0.10	152.0			
	CSA 90°C		24	11/0.160	0.38	1.45	±0.10	88.60		
			22	17/0.160	0.38	1.60	±0.10	62.50		
	UL 80°C		300V	20	21/0.180	0.38	1.85	±0.10		39.50
				18	34/0.180	0.38	2.10	±0.10		24.40
先絞後鍍 (ATC) Top-Coated	UL 80°C	300V	30	7/0.100	0.38	1.10	±0.10	397.0		
			28	7/0.127	0.38	1.20	±0.10	248.0		
	26		7/0.160	0.38	1.30	±0.10	152.0			
	CSA 90°C		24	7/0.200	0.38	1.45	±0.10	88.60		
			22	7/0.254	0.38	1.60	±0.10	62.50		
	UL 80°C		300V	20	7/0.320	0.38	1.85	±0.10	39.50	
				18	1/0.320	0.38	1.15	±0.10	232.1	
	單心綫 Solid (TA)		UL 80°C	300V	26	1/0.404	0.38	1.25	±0.10	155.0
24		1/0.511			0.38	1.40	±0.10	92.40		
CSA 90°C		22	1/0.643		0.38	1.55	±0.10	60.10		
		20	1/0.813		0.38	1.70	±0.10	37.00		
			18	1/1.020	0.38	1.96	±0.10	23.60		



CERTIFICATION RECORD

The company named below has been authorized by CSA to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

NUMBR 084687W0000 May 5, 1998 (Replaces: November 5, 1996)

CLASS 5835 01 (Label/Licensing Service)

84687

WIRES - Equipment

- Max temperature rating 105C: TEW (60C in oil).

- Max temperature rating 200C: SEW-1, SEW-2

Note: Types SEW-1 and SEW-2 may be dual marked as AWM(class 5851 01)

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Issued: 01-17-97
Revised: 5-9-01

FOLLOW-UP SERVICE PROCEDURE
(TYPE L)

COMPONENT - APPLIANCE WIRING MATERIAL (AVLV2, AVLV8)

Manufacturer:
(342072-001)

* Applicant:
(559504-001)

* Recognized
Company:
(559504-001):

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The Prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and the representatives of Underwriters Laboratories Inc. and is not used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. upon request.

The PROCEDURE, and any subsequent revisions, is the property of UNDERWRITERS LABORATORIES INC., and is not transferable.

1.SPECIFICATIONS

(1) Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	20	mA
Peak Forward Current	IFP	160	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	110	mW
Electrostatic Discharge (HBM)	/	/	V
Operating Temperature	TOP	-40°C~80°C	°C
Storage Temperature	TSTG	-40°C~100°C	°C
Lead Soldering Temperature	TSOL	260°C FOR 5 SECONDS	

IFP Conditions: Pulse Width ≤ 0.1msec. and duty ≤ 1/10

(2) Initial Electrical/Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=20(mA)	3	5	8	V
Reverse Current	IR	VR=5(V)	/	/	20	μA
Viewing Angle	2θ 1/2	IF=20(mA)	/	/	/	deg
Luminous Intensity	IV	IF=20(mA)	10	18	/	mcd
Peak Wavelength	λ p	IF=20(mA)	655	660	665	nm
Dominant Wavelength	λ d	IF=20(mA)	640	645	650	nm
Recommend Forward Current	IF(Rec)	/	/	20	/	mA
Blinking frequency	Fblk	Hz	2	2.4	2.8	/

2.TYPICAL INITIAL OPTICAL/ELECTRICAL CHARACTERISTICS

Please refer to Figures : in Page 3

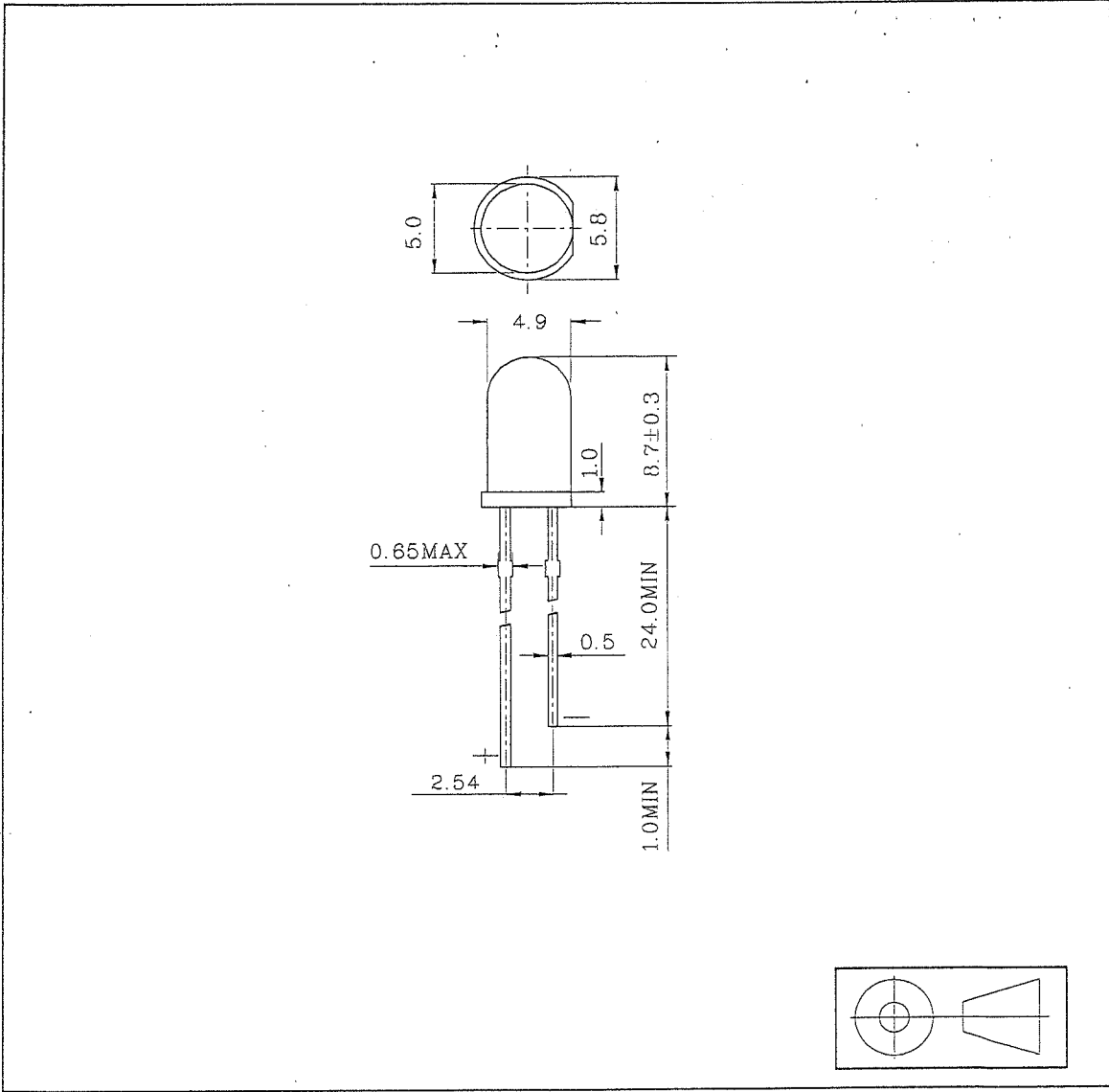
3.OUTLINE DIMENSIONS AND MATERIALS

Please refer to drawing: in Page 2

Material as follows: Resin :Epoxy

Lead frame:Ag plating Copper alloy

2. Package Dimension:



Part Number	Chip		Lens Color
	Material	Emitting Color	
BA50-PSR117/E291/I2	InGaAlP/GaAs	RED	Red Diffused

■ NOTES:

- 1. All dimension are millimeters.
- 2. Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted.

3. Typical Electro-Optical Characteristic Curves:

Fig1.Forward Current vs.Forward Voltage

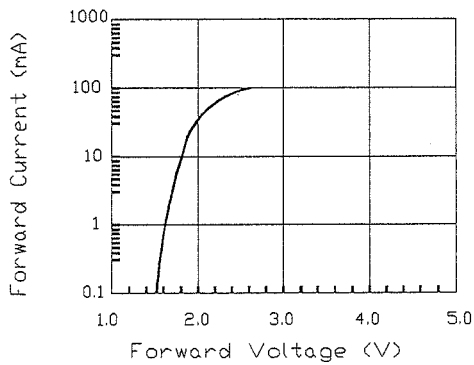


Fig2.Relative Intensity vs. Forward Current

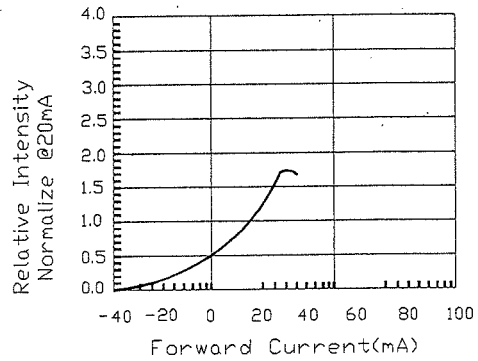


Fig3.Forward Voltage vs. Temperature

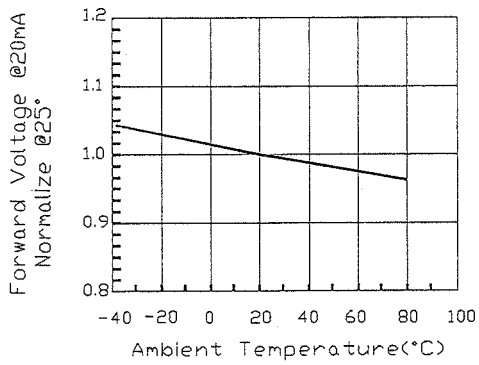


Fig4.Relative Intensity vs. Temperature

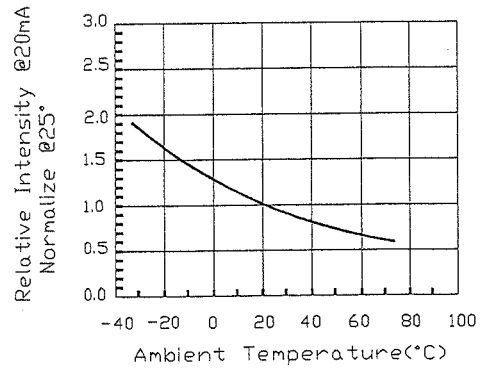
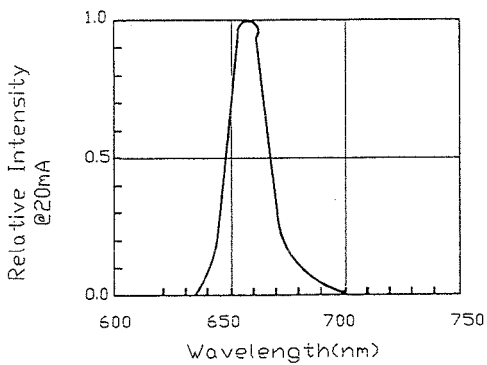


Fig5.Relative Intensity vs. Wavelength



4.Reliability Performance

(1)Reliability test item and condition

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP:260±5°C	5 SEC	76pcs	0/1
2	Temperature Cycle	H:+85°C 30min δ 5min L:-40°C 30min	50CYCLE	76pcs	0/1
3	Thermal Shock	H:+100°C 5min δ 10sec L:-10°C 5min	50CYCLE	76pcs	0/1
4	High Temperature Storage	TEMP:100°C	1000HRS	76pcs	0/1
5	Low Temperature Storage	TEMP:-40C	1000HRS	76pcs	0/1
6	DC Operating Life	If=20mA	1000HRS	76pcs	0/1
7	High Temperature High Humidity	85°C/85%RH	1000HRS	76pcs	0/1

(2)CRITERIA FOR JUDGING THE DAMAGE

		Test Conditions	Criteria for judgement	
			Min	Max
Voltage(Forward)	VF	IF=20mA	-	U.S.L*)×1.1
Current(Reverse)	IR	VR=5V	-	U.S.L*)×2.0
Luminous Intensity	IV	IF=20mA	L.S.L**)×0.7	-

*)U.S.L.: Upper Standard Level.

**)L.S.L.:Lower Standard Level.

EC DECLARATION OF CONFORMITY

No.:TB0703662

Applicant

Address

Manufacturer

Address

Product

Model : BA001

Listed Models : BAXXX (XXX Are Arabia Numbers 002 to 999)

Test Standard :

EN60825-1:1994+A1:2002+A2:2001

The EUT described above has been tested by us with the listed standards and found in compliance with the council LVD Directive 73/23/EEC, including amendment 93/68/EEC -Council Directive Amending Directives. It is possible to use CE marking to demonstrate the compliance with this LVD Directive.

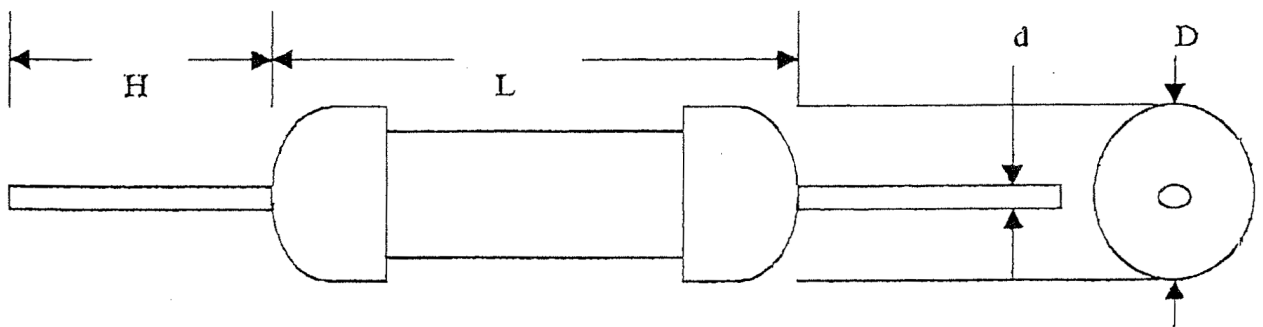
The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number:TB-LVD07817.

CE



CB
Scheme





TYPE	POWER	L	D	H	d
CR-12	1/16W 1/6W 1/8W	3.2 ± 0.3	1.5 ± 0.3	28 ± 3	0.48 ± 0.05
CR-25S	1/4W				
CR-25	1/4W	6.0 ± 0.5	2.3 ± 0.3	28 ± 3	0.56 ± 0.05
CR-33S	1/3W				
CR-50SS	1/2W				
CR-50	1/2W	9.0 ± 0.5	3.2 ± 0.5	28 ± 3	0.60 ± 0.05
CR-100S	1W				
CR-100	1W	11 ± 1.0	4.5 ± 0.5	35 ± 3	0.80 ± 0.05
CR-200S	2W				
CR-200	2W	15 ± 1.0	5.0 ± 0.5	35 ± 3	0.80 ± 0.05
CR-300S	3W				
CR-300	3W	17 ± 1.0	6.0 ± 0.5	35 ± 3	0.80 ± 0.05