

BRM-2A18

INFRARED RECEIVER MODULE

Description

- The BRM-2A18 is miniaturized infrared receivers for remote control and other applications requiring improved ambient light rejection.
- 2. The separate PIN diode and preamplifier IC are assembled on a single lead frame.
- 3. The epoxy package contains a special IR filter.
- This module has excellent performance even in disturbed ambient light applications and provides protection against uncontrolled output pulses.

Features

- 1. Photo detector and preamplifier in one package .
- 2. Internal filter for PCM frequency.
- 3. High immunity against ambient light.
- 4. Improved shielding against electric field disturbance.
- 5. 2.7V or 5.5V supply voltage; low power consumption.
- 6. TTL and CMOS compatibility.
- 7. Suitable transmission code: NEC code, RC5 code.
- This product doesn't contain restriction substance, comply RoHS standard

Applications:

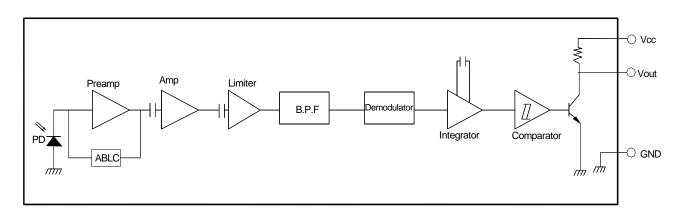
 It can be used for TVs · VTRs · audio equipment air conditioners · car stereo radio · toys · home computers and all other equipment requiring remote control.

Package Dimensions: 1. OUT 2. GND 3. VCC

NOTES:

- 1.All dimensions are in millimeters (inches).
- 2.Tolerance is ±0.10mm (0.004") unless otherwise specified.
- 3. Specifications are subject to change without notice.

BLOCK DIAGRAM





BRM-2A18

■ Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Ratings	Unit	Notice
Supply Voltage	Vcc	2.7~5.5	V	_
Operating Temperature	Topr	-25~+85	°C	
Storage Temperature	Tstg	-40~+85	°C	
Soldering Temperature	Tsol	260	°C	4mm from mold body less than 5 sec

● Electrical And Optical Characteristics(Ta=25°C)

Parameter	Symbol	Condition	Ratings			Unit
i arameter		Johnson	Min.	Тур.	Max.	Oilit
Supply Voltage	Vcc	DC voltage	2.7		5.5	V
Supply Current	Icc	No signal input(Vcc=3V)	_	0.68	<u></u>	mA
Reception Distance		Set-top box	12	20	_	m
		Electricity meter	4.5	7.5	_	- m
B.P.F Center Frequency	fo	-	_	38	_	KHz
Peak Wavelength	λρ		_	940	_	nm
Half Angle	θ	_	_	45	_	deg
High Level Pulse Width	Тн	Specified by the output T _H period within a range from 10cm to the arrival distance (average value of 50 pulses)	400	_	800	μS
Low Level Pulse Width	T _L	Specified by the output T _L period within a range from 10cm to the arrival distance (average value of 50 pulses)	400	_	800	μS
High Level Output Voltage	V_{H}	10cm over the ray axis	4.5	_	_	V
Low Level Output Voltage	V_L	10cm over the ray axis			0.5	V



BRM-2A18

Application Circuit

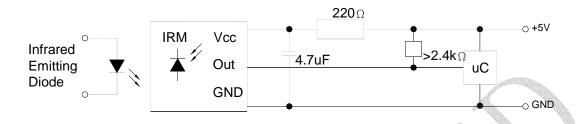


Fig.1 Transmitter Wave Form

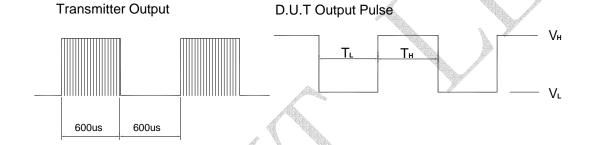


Fig.2 Measuring Method

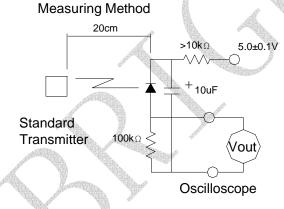
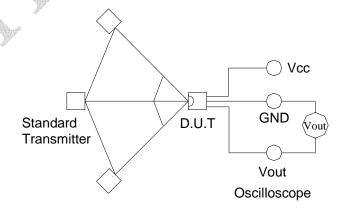


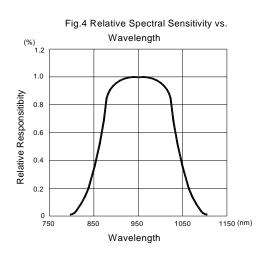
Fig.3 Measuring System

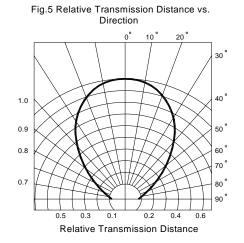


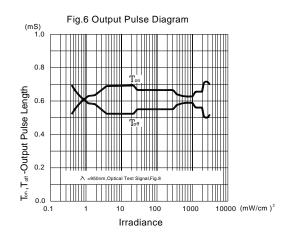


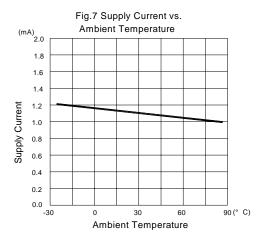
BRM-2A18

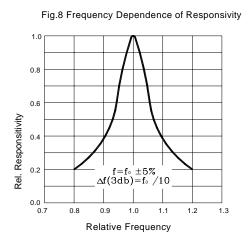
■ Electrical And Optical Curves(Ta=25°C)

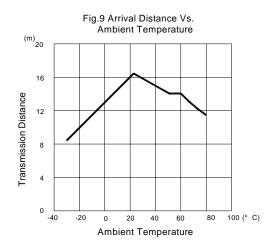








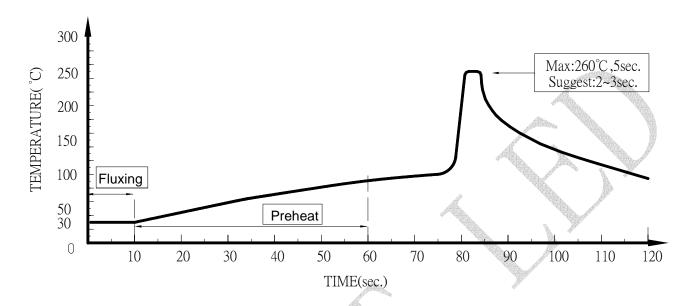






BRM-2A18

Dip Soldering



- Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
- 2. DIP soldering and hand soldering should not be done more than one time.
- 3. After soldering, avoid the epoxy lens from mechanical shock or vibration until the LEDs are back to room temperature.
- 4. Avoid rapid cooling during temperature ramp-down process
- Although the soldering condition is recommended above,soldering at the lowest possible temperature is feasible for the LEDs

IRON Soldering

A: Max: 350℃ Within 3 sec. One time only.

B: The products of 3mm without flange, welding condition of flat plate PCB Max:

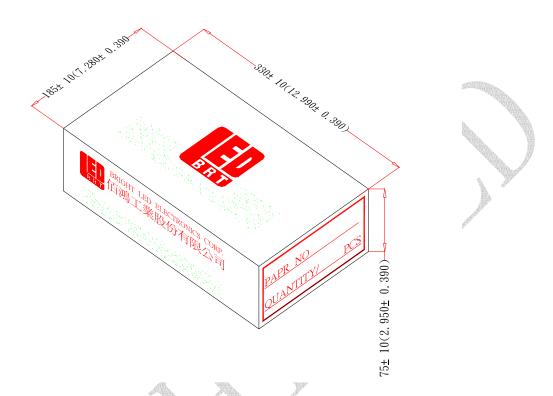
350°C Within 2 sec. One time only

3.0(.118)



BRM-2A18

Packaging Box Dimensions



Packaging Bag Dimensions



Notes:

- 1 · 250pcs per bag, 3Kpcs per box.
- 2 · All dimensions are in millimeters(inches).
- 3 · Specifications are subject to change without notice.



BRM-2A18

Precautions for use:

- 1. Since the device is static sensitive, it is requested that anti-static measures should be taken on human body, all devices (including soldering iron) and equipment, machinery, desk and ground;
- 2. Do not supply unnecessary stress to lead;
- 3. Please pay careful attention to the lens of receivers, It might has a chace to miss-function when the lens get dust or dirty. And also please do not touch the lens.

单击下面可查看定价,库存,交付和生命周期等信息

>>BRT(佰鸿工业)