

DATA SHEET

Optoelectronic Devices

	Order code	Manufacturer code	Description					
I	58-0115	n/a	BPW41N INFRA RED SENSOR (RC)					

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The enclosed information is believed to be correct, Information may change without noticed due to	Revision A
product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	20/02/2007

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BPW SERIES

SILICON PIN PHOTO DIODES

A range of PIN photodiodes encapsulated in economical plastic packages which are clear or incorporate a daylight filter which provides sensitivity to infra-red radiation only, with high rejection of wavelengths less than 700nm. The devices have low junction capacitance and thus are capable of fast switching speeds.

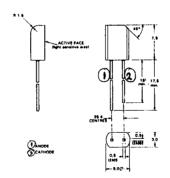
SUITABLE APPLICATIONS

Filtered options — IR remote-control for television, hi-fi systems, slide projectors, model cars, trains, etc., garage door, domestic appliances, automobile security. Perfectly matched to GaAs IRED emission.

Clear options - General purpose light sensing, street lighting.

INFRA-RED PIN DIODE PHOTO DETECTORS

	Photo Sensitive Area mm²	Package Ref.	CHARACTERISTICS at 25°C								
Device Type			Ø I _L and \ E _e =1mW λ=950			I _R at V _R E _e =0		V _{BR} I _R = 100μΑ	λρ/λ0.5	C _i V _R =3V f=1MHz	t_{on}/t_{off} $V_R = 10V$ $R_L = 1k\Omega$
				V _R =5V µA	mV	nA	٧	٧	nm	E _e =0 pF	nS
BPW41	7.25	Fig. 7	± 65°	(>25)45	350	2(<30)	10	>32	925/ 820 to 1040	25(<40)	50



BPW41