BS115

Can Package Photodiie for **Visible** Light

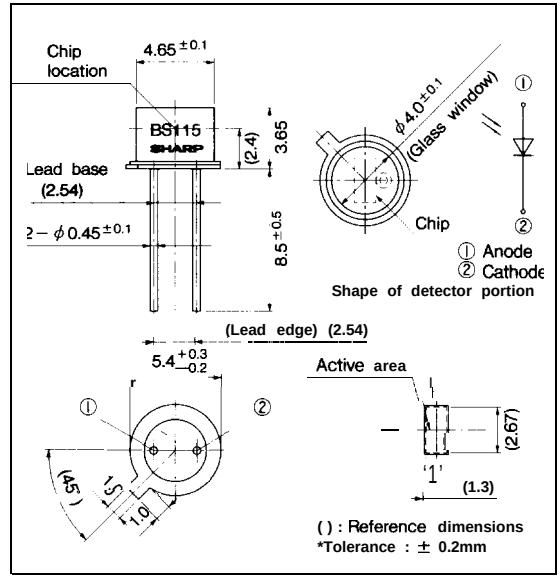
■ Features

1. Spectral sensitivity characteristics akin to that of human eye
2. Wide operating temperature (T_{opr} : −30to +110℃)
3. High reliability (can package is adopted)
4. Low dark current (I_d : MAX. 1nA at V_R=5V)

■ Applications

1. LCD backlight monitor
2. Exposure meter

■ Outline Dimensions (Unit : mm)



■ Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	unit
Reverse voltage	V_R	5	V
Operating temperature	T_{opr}	−30 to +110	℃
Storage temperature	T_{stg}	−40 to +125	℃
Soldering temperature	T_{sol}	260	℃

■ Electro-optical Characteristics (Ta = 25℃)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Short circuit current	I_{SC}	*1E_V=100lx	1.4	1.7	2.1	μA
Short circuit current temperature coefficient	β_{TF}	*1E_V= 100Ix	−	0.05	−	%/"c
Dark current	I_d	V_R=5V	−	−	1.0	nA
Open circuit voltage	V_{OC}	*1E_V=100lx	370	470	−	mV
Peak sensitivity wavelength	λ_P		−	750	−	nm
Terminal capacitance	C_t	V_R=0V,f=10kH z	-	270	−	pF
Response time	t_r	V_R=0, R_L=1k Ω	−	2.0	−	μs

*1 E_v: Illuminate by CIE standard light source A (tungsten lamp)

Fig. 1 Spectral Sensitivity (Typical Value)

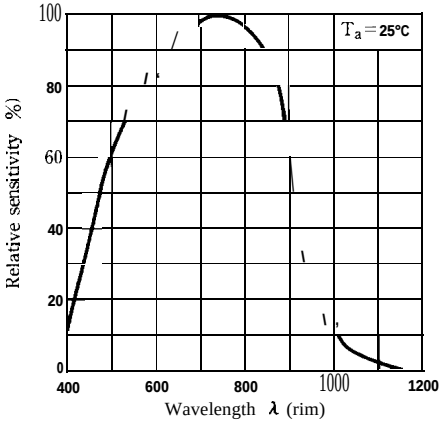
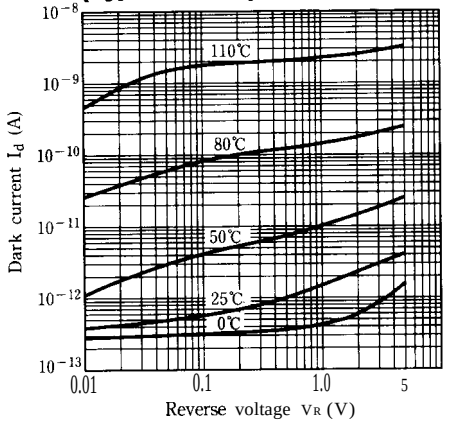


Fig. 2 Dark Current vs. Reverse Voltage (Typical Value)



● Please refer to the chapter “Precautions for Use.” (Page 78 to 93)