

1740nm 1000um PD with single stage TEC TO-can datasheet

P/N: WET3-1000B

FEATURES:

High responsivity
Low dark current
900-1740nm Spectral range

APPLICATIONS:

Near-infrared sensing
Monitoring
Meter/Instruments

Electrical-Optical Characteristics(T=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Responsivity	R	$\lambda=1654\text{nm}, -5\text{V}$	0.9	1		A/W
Dark current	I_d	$V_R=-5\text{V}$			5.0	nA
Capacitance	C	$V_R=-5\text{V}, f=1\text{MHz}$		55	65	pF
Active Area	φ	-	995	1000	1005	um
Wavelength range	λ	-	900	1650	1740	nm

ABSOLUTE MAXIMUM RATING

Parameter	Symbol	Min	Max.	Unit
Operating Temperature	Top	-40	85	°C
Storage Temperature	Tstg	-40	125	°C
Forward current	IF	-	10	mA
Reverse voltage	VR	0	20	V

Parameter	Symbol	Test Conditions	Min	Typ	Max.	Unit
Thermistor Resistance	Rt	T=25 °C	-	10	-	kΩ
Thermistor B Constant	B	T=25 °C	-	3950	-	K
TEC Current	Ic	-40~120 °C	-	-	2	A
TEC Voltage	Vc	-40~120 °C	-	-	2.5	V

Pin Connection Type & Outline Drawings

