InGaAs Photodiodes KPDE150-H45

Characteristics

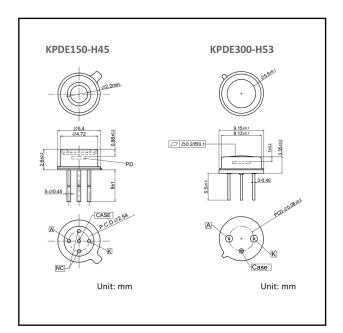
- Large sensitive area
- Low voltage operation
- Custom designed photodiode available

Applications

- Laser power monitors
- Laser diode and LED aging equipment
- Near infrared sensing system
- Power meters

Package

• TO-CAN





Absolute Maximum Ratings

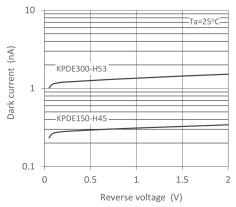
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	2	V	-
Reverse Current	I _R	50	mA	-
Forward current	I _F	50	mA	-
Operating temperature	T _{opr}	-20 to +70		Avoid dew condensation
Storage temperature	T _{stg}	-20 to +80		Avoid dew condensation

Electrical and Optical characteristics (Ta=25 unless otherwise noted)

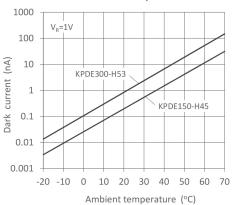
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	S	-	1500	-	μm	-
Sensitive wavelength		900	-	1700	nm	-
Responsivity	R	0.8 0.9	0.9 1.0	-	A/W	$V_{R}=1V = 1310$ nm $V_{R}=1V = 1550$ nm
Dark current	I _D	-	1	-	nA	V _R =1V
Total capacitance	Ct	-	150	-	pF	V _R =1V f=1MHz



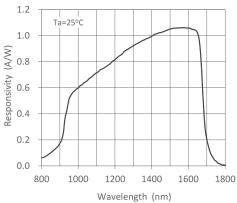
Dark Current - Reverse Voltage

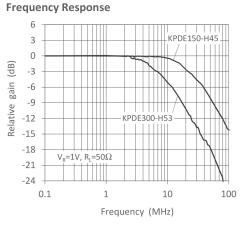


Dark Current - Ambient Temperature

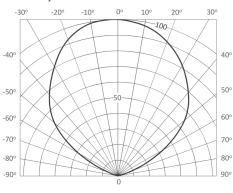






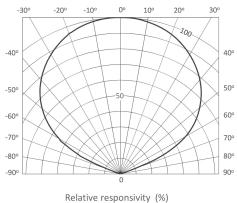


KPDE150-H45 Directivity



Relative responsivity (%)







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