

InGaAs PIN Photodiodes (Type : DPIN-222)

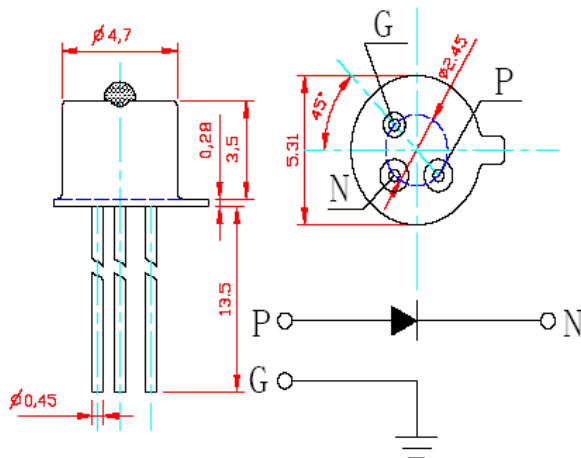
Electrical and Optical Characteristics (T=25° C):

Parameters	Symbol	Test Conditions	Min	Typ	Max	Unit
Spectral Response Range	λ		1000		1650	nm
Dark Current	I_D	$V_R = 5 V$		0.1	0.3	nA
Responsivity	R_e	$V_R = 5 V, \lambda = 1310nm$	0.85	0.90		A/W
		$V_R = 5 V, \lambda = 1550nm$	0.90	0.95		A/W
Active Area			$\phi 55$			um
Capacitance	C	$f = 1MHz, V_R = 5 V$		0.45	0.65	pF
Operating Voltage	V_{opr}			-5	-15	V
Cut-off Frequency	f_c	$V_R = 5 V, R_L = 50\Omega, -3dB$	2.5			GHz

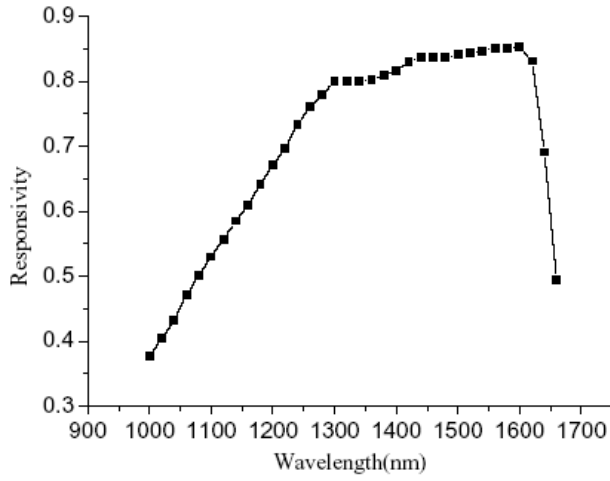
Absolute Maximum Ratings (T=25° C):

Parameters	Min	Max	Unit
Reverse Voltage		25	V
Input Optical Power		10	dBm
Operating Temperature	-40	85	°C
Storage Temperature	-40	85	°C

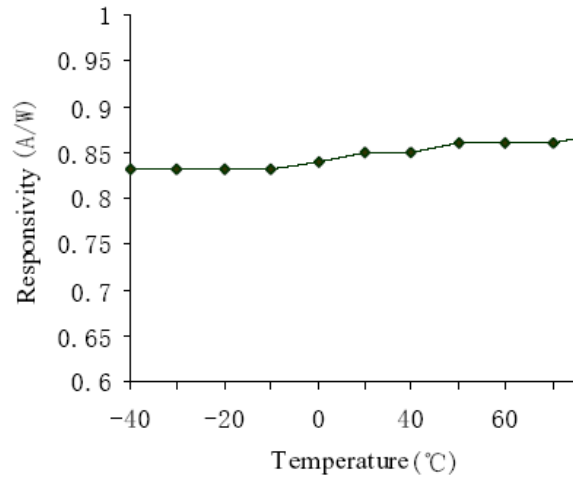
Package Dimensions



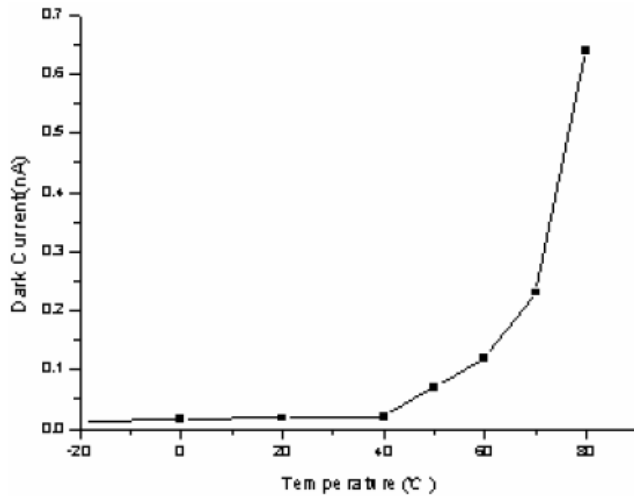
Spectral Response



Responsivity vs. Temperature



Dark Current vs. Temperature



Current vs. Optical Power

