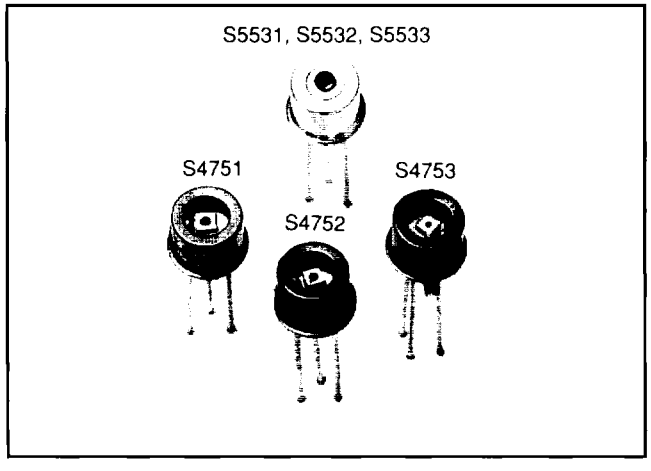
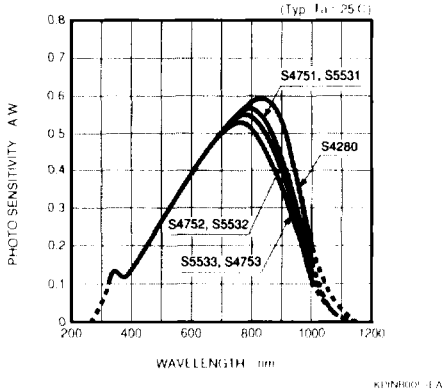
Si PIN Photodiodes (2)

Type No.	Dimensional Outline (P.40)/ Window Material*	Package	Active Area Size (mm)	Effective Active Area (mm^2)	Spectral Response Range λ (nm)	Peak Sensitivity Wavelength λp (nm)	Photo Sensitivity S (A/W) Typ. λp	660nm	780nm	830nm	Short Circuit Current Isc 100 lx Typ. (μA)
S4280	❺/K	3-pin TO-18	ϕ 0.8	0.5	320 to 1000	840	0.6	0.45	0.58	0.6	0.44
S4751						800	0.57		0.56	0.55	
S5531	❻/L										0.53
S4752	❺/K		ϕ 0.6	0.28		780	0.55		0.54	0.5	0.21
S5532	❻/L										0.42
S4753	❺/K		ϕ 0.4	0.12		760	0.52		0.52	0.47	0.1
S5533	❻/L										0.38

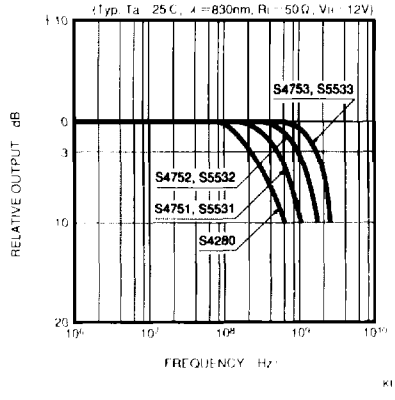
* Window material, K: borosilicate glass, L: lens type borosilicate glass



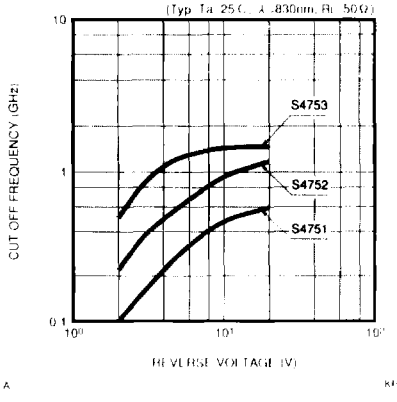
● Spectral Response



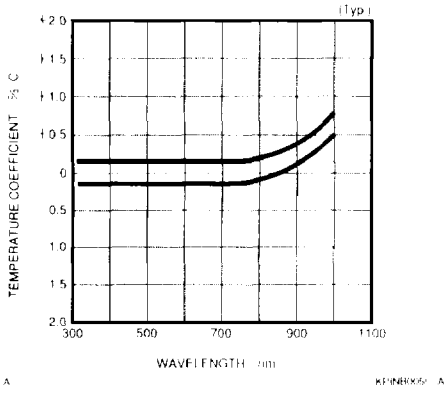
● Frequency Response



● Cut-off Frequency vs. Reverse Voltage



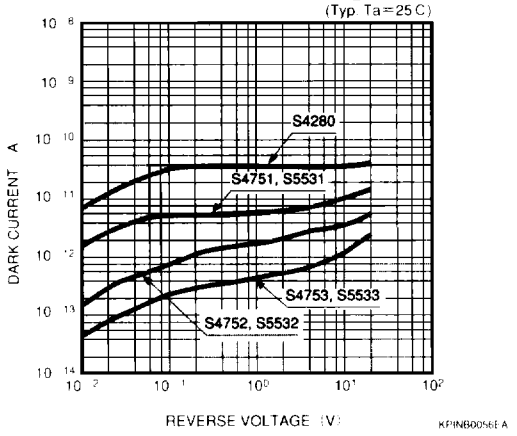
● Temperature Characteristics for Isc



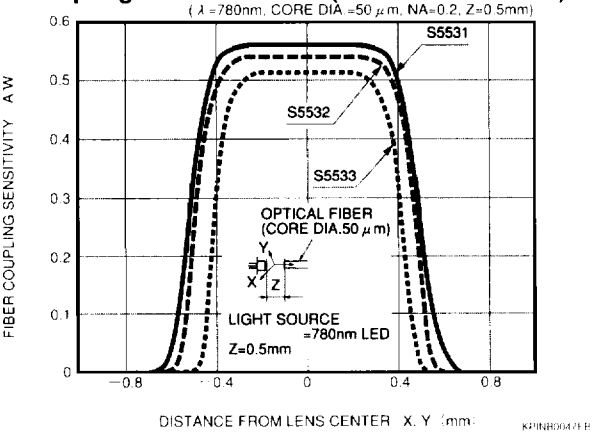
(Ta=25 C)

Dark Current ID VR=12V (nA) Typ.	Dark Current ID VR=12V (nA) Max.	Temperature Coefficient of ID Typ. (times/℃)	Cut-off Frequency fc VR=12V Typ. (GHz)	Terminal Capacitance Ct VR=12V f=1MHz Typ. (pF)	NEP VR=12V Typ. (W/Hz$^{1/2}$)	Absolute Maximum Ratings: Reverse Voltage VR Max. (V)	Absolute Maximum Ratings: Power Dissipation P Max. (mW)	Absolute Maximum Ratings: Operating Temperature Topr (℃)	Absolute Maximum Ratings: Storage Temperature Tstg (℃)	Type No.
0.04	1.0	1.15	0.25	2.5	6.0×10^{-15}	20	50	−40 to +100	−55 to +125	S4280
0.01	0.5		0.5	3	3.1×10^{-15}					S4751
										S5531
0.005	0.3		1	2	2.3×10^{-15}					S4752
										S5532
0.002	0.1		1.5	1.5	1.5×10^{-15}					S4753
										S5533

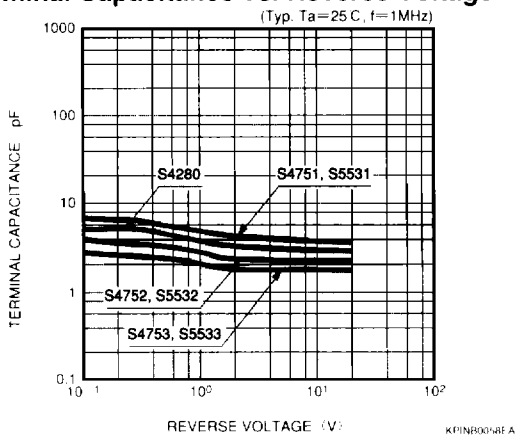
● Dark Current vs. Reverse Voltage



● Fiber Coupling Characteristics (X and Y directions)



● Terminal Capacitance vs. Reverse Voltage



● Fiber Coupling Characteristics (Z direction)