

FAIRCHILD OPTOELECTRONICS

OPTO

PHOTO TRANSISTORS

Item	DEVICE NO.	Description	V_{CEO} $I_C = 1.0mA$ V		$I_{CE(II)}$ $V_{CE} = 5.0V$ mA			$V_{CE(sat)}$ $H = 20mW/cm^2$ V			t_r/t_f μs Typ	Package No.
			Min	Typ	Min	Typ	Max	Min	Typ	Max		
1	FPT100	Plastic, Dome Lens General Purpose	30	50	H = 5.0mW/cm ² 0.2	1.4	—	$I_C = 500\mu A$ —	0.16	0.3	2.8	Opto-26
2	FPT100A	Plastic, Dome Lens 1:3 Sensitivity	30	50	H = 5.0mW/cm ² 1.0	1.4	3.0	$I_C = 500\mu A$ —	0.16	0.3	2.8	Opto-26
3	FPT100B	Plastic, Dome Lens 1:2 Sensitivity	30	50	H = 5.0mW/cm ² 1.3	1.4	2.6	$I_C = 500\mu A$ —	0.16	0.3	2.8	Opto-26
4	FPT101	Miniature, .080" Dia. Hermetic Package	$I_C = 0.1mA$, $H \leq 0.1\mu W/cm^2$ 30 60		$H = 20mW/cm^2$ 0.8 3.5 —			$I_C = 0.4mA$ — 0.25 0.3			2.8	Opto-27
5	FPT102	Photodiode Hermetic Package	$I_R = 5.0\mu A$, $H \leq 0.1\mu W/cm^2$ 50 120		$V_R = -10.0V$, $H \leq 0.1\mu W/cm^2$ — 0.1nA 25nA			$V_R = -10V$ 12 μA 20 μA —			0.2	Opto-27
6	FPT110	Plastic Flat Lens General Purpose	30	50	H = 5.0mW/cm ² 0.2	0.88	—	$I_C = 500\mu A$ —	0.16	0.33	2.8	Opto-28
7	FPT110A	Plastic Flat Lens 1:3 Sensitivity	30	50	H = 5.0mW/cm ² 0.6	0.88	1.8	$I_C = 500\mu A$ —	0.16	0.33	2.8	Opto-28
8	FPT110B	Plastic Flat Lens 1:2 Sensitivity	30	50	H = 5.0mW/cm ² 0.8	0.88	1.6	$I_C = 500\mu A$ —	0.16	0.33	2.8	Opto-28
9	FPT120	Plastic, Dome Lens High Sensitivity	20	50	H = 1.0mW/cm ² 0.4	1.5	—	$I_C = 1.0mA$ —	0.25	0.55	18	Opto-26
10	FPT120A	Plastic, Dome Lens 1:3 Sensitivity	15	30	H = 1.0mW/cm ² 1.5	2.4	4.5	$I_C = 1.0mA$ —	0.25	0.55	18	Opto-26
11	FPT120B	Plastic, Dome Lens 1:1.5 Sensitivity	15	30	H = 1.0mW/cm ² 2.0	2.4	4.0	$I_C = 1.0mA$ —	0.25	0.55	18	Opto-26
12	FPT120C	Plastic Cup, Dome Lens	11	20	H = 5.0mW/cm ² 16	—	25	$I_C = 1.0mA$ —	0.35	0.55	18	Opto-26
13	FPT130	Plastic, Flat Lens High Sensitivity	20	50	H = 1.0mW/cm ² 0.4	0.9	—	$I_C = 1.0mA$ —	0.25	0.55	18	Opto-28
14	FPT130A	Plastic, Flat Lens 1:3 Sensitivity	15	30	H = 1.0mW/cm ² 0.9	1.5	2.7	$I_C = 1.0mA$ —	0.25	0.55	18	Opto-28
15	FPT130B	Plastic, Flat Lens 1:2 Sensitivity	15	30	H = 1.0mW/cm ² 1.2	1.5	2.4	$I_C = 1.0mA$ —	0.25	0.55	18	Opto-28
16	FPT131	Plastic, Dome Lens	15	50	H = 5.0mW/cm ² 0.1	1.4	—	$I_C = 500\mu A$ —	0.16	0.7	2.8	Opto-26
17	FPT132	Plastic, Dome Lens	10	30	H = 1.0mW/cm ² 0.2	1.5	—	$I_C = 1.0mA$ —	0.15	0.7	18	Opto-26
18	FPT136	Plastic, Flat Lens	15	50	H = 5.0mW/cm ² 0.1	0.88	—	$I_C = 500\mu A$ —	0.16	0.7	2.8	Opto-28