Simplex Style (SFR) Transmitters and Receivers

The SFR style devices consist of a Base Part mounted in a Metal Simplex connector. LEDs and receivers are assembled to insure the best power output or responsivity for each dash number. All output power, responsivity, and sensitivity limits are those of the base part. See the dash number (-XXX) of the base part for the proper limits. For information on the Base Part see pages 16 & 17 for transmitters and pages 17 & 18 for receivers in this Selection Guide.

LEDs

Part #	Description	Base Part	Pinout 1	2	3	4
HFE4808 -XXX	5 to 30 µW @ 100mA into 50/125 micron cable.	HFE4000	A	K	G	N
HFE4818 -XXX	15 to 30 µW @ 50mA into 100/140 micron cable.	HFE4020	A	K	N	N
HFE4822 -XXX	5 to 30 µW @ 100mA into 50/125 micron cable.	HFE4003	A	K	G	N
HFE4826 -XXX	15 to 30 µW @ 50mA into 100/140 micron cable.	HFE4023	A	K	G	N

Digital Integrated Transmitters (V_{CC}=5.0V)

Part #	Description	Base Part	Pinout 1	2	3	4
HFE4810 -XXX	10Mbps, 2.5 to 20µW @50mA into 50/125 micron cable.	HFE4010	V	I	G	N

PhotoDiodes

Part #	Description	Base Part	Pinout 1	2	3	4
HFD3844 -XXX	0.45 A/W, I_D<2.0nA @ V_R=5V, B_{VR}>110V.	HFD3002	A	K	G	N
HFD3848 -XXX	0.45 A/W, I_D<2.0nA @ V_R=5V, B_{VR}>110V.	HFD3022	A	K	G	N

Digital Integrated Receivers (V_{CC}=5.0V)

Part #	Description	Base Part	Pinout 1	2	3	4
HFD3800 -XXX	Differentiating, 10Mbips 1.0 µW	HFD3000	V	O	G	N
HFD3817 -XXX	Schmitt Trigger, 200Kbps, 5.0 µW	SD4324	V	O	G	N
HFD3849 -XXX	Differentiating, 10Mbps, 1.0 µW	HFD3020	C	V	O	G
SPX4693 -XXX	Schmitt Trigger, 200Kbps, 5.0 µW	SD3324	V	O	G	N

Analog Integrated Receivers (V_{CC}=5.0V)

Part #	Description	Base Part	Pinout 1	2	3	4
HFD3861 -XXX	4mV/µW, BW=35MHz, Output Noise<0.35mV	HFD3026	C	V	O	G

Package Information - SFR-Simplex style

All dimensions are in inches (millimeters).

Pinout Definition
A = Anode
C = Capacitor
G = Ground (Case)
I = Input
K = Cathode
N = Not Used
O = Output
V = +V (V_{CC})