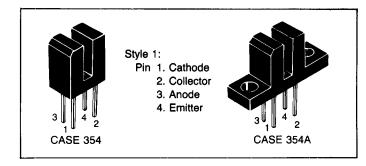
OPTOELECTRONICS — (continued)

Couplers/Interrupters

Slotted Couplers/Interrupter Modules

Slotted couplers consist of an infrared emitting diode facing a photodetector in a molded plastic housing. A slot in the housing between the emitter and the detector provides a means of interrupting the signal. A wide selection of standard and custom housings and detector functions is available. All IREDs and photodetectors in the miniature Case 349 (see Silicon Photodetectors) can be used in these housings.



Transistor Output $(V_{(BR)CEO} = 30 \text{ V})$

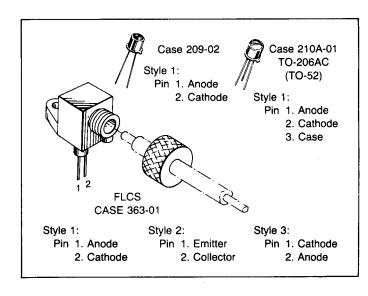
	Current Transfer Ratio (CTR)			VCE(sat)			^t on ^{, t} off* Typ			VF			
Device	% @ Min	@ IF mA	V _{CE} Volts	Volts @ Max	⊋ lF mA	I _C	μs	V _{CC} Volts	RL Ω	lF mA	Volts (@ IF mA	Case
MOC7811	5.0	20	5.0	0.4	30	1.8	12/60	5.0	2.5K	30	1.8	50	354A
MOC7812	10	20	5.0	0.4	20	1.8	12/60	5.0	2.5K	30	1.8	50	Style 1
MOC7813	20	20	5.0	0.4	20	1.8	12/60	5.0	2.5K	30	1.8	50	
MOC7821	5.0	20	5.0	0.4	30	1.8	12/60	5.0	2.5K	30	1.8	50	354
MOC7822	10	20	5.0	0.4	20	1.8	12/60	5.0	2.5K	30	1.8	50	Style 1
MOC7823	20	20	5.0	0.4	20	1.8	12/60	5.0	2.5K	30	1.8	50	

Fiber Optic Devices

Motorola offers high performance Infrared Emitters and Detectors for fiber optic systems. Devices are available for systems requiring greater than 100 MHz analog bandwidth over several kilometers or requiring very low cost with up to 10 MHz bandwidth over short distances.

The packages fit directly into standard fiber optic connector systems. All devices are spectrally matched to minimum attenuation regions of most fiber optic cables.

The Fiber Optic Low Cost System (FLCS) package houses infrared emitters and detectors and has a molded lens which efficiently couples the light to and from the cable. The package is complete with the fiber alignment and locking mechanism and the means for attaching to a board.



Infrared Emitters

Designed as infrared sources for fiber optic systems. MFOE200 is compatible with AMP #227015; MFOE1200, MFOE1201 and MFOE1202 are compatible with AMP #228756-1 and Amphenol #905-138-5001 receptacles.

		Power tput	ton/toff ns	λ nm		
Device) IF mA	Тур	Typ	Case	
MFOE71	3.5	100	25	820	363-01 Style 1 (FLCS)	
MFOE200	3.0	100	250	940	209-02 Style 1	
MFOE1200 MFOE1201 MFOE1202	0.9 1.5 2.4	100 100 100	(>70 MHz bw) (>100 MHz bw) (>100 MHz bw)	820 820 820	210A-01 Style 1	