



## ELECTRO-OPTICAL CHARACTERISTICS @ 25°C (See also curves, pages 32 & 33)

PART NO. (4)	LIGHT CURRENT, $I_p$			DARK CURRENT <sup>(1)</sup>			SATURATION VOLTAGE			APERTURE COMBINATION <sup>(2)</sup>	
	mA Min.	Test Conditions		nA Max.	Test Conditions		Volts Max.	Test Conditions		Emitter	Detector
		$I_F$ mA	$V_{CE}$ Volts		$I_F$ mA	$V_{CE}$ Volts		$I_F$ mA	$I_C$ mA		
VTL13D1H	0.5	20	5	100	0	10	0.4	20	0.25	None	None
VTL13D1-20H	0.15	20	5	100	0	10	0.4	20	0.25	.020" Wide	None
VTL13D3H	2.0	20	5	100	0	10	0.4	20	1.8	None	None
VTL13D3-20H	0.6	20	5	100	0	10	0.4	20	1.8	.020" Wide	None
VTL13D5-20H	0.15	20	5	100	0	10	0.4	20	0.25	.020" Wide	.010" Wide
VTL13D6-20H	0.075	20	5	100	0	10	0.4	20	0.25	.020" Wide	.005" Wide
VTL13D7H	0.75	20	5	100	0	10	0.4	20	0.25	None	.020" Wide
VTL13D7-20H	0.225	20	5	100	0	10	0.4	20	0.25	.020" Wide	.020" Wide

### Notes:

1. The dark current is measured with the part totally shielded from ambient light. With 2150 lux (200 fc) from a cool white fluorescent lamp falling on the part, the typical dark current will be 3  $\mu$ A for VTL13DH devices. Equivalent light from an incandescent lamp will result in significantly greater currents.
2. The apertures used for these slotted switches are .040" (1.02 mm) high.
3. The case material is polysulfone and should be cleaned with alcohol or freon TF only. Avoid chlorinated hydrocarbons and solvents such as acetone or toluene, as damage may result.
4. VTL13D7-20H accommodates most applications. The other parts in this series are available only for specialized, high volume applications.