

OPTOCOUPERS

T-41-89

OPTOCOUPLER—FET OUTPUT

ELECTRO-OPTICAL CHARACTERISTICS (TA = 25°C)

Part Number	Isolation Voltage Min. Vrms	Maximum On State Resistance If = 18mA, IPk = 4, $\epsilon = 100\mu\text{A}$ Ohms	Minimum Off State Resistance V _{ce} = 15V, If = 0 Megohms	Breakdown Voltage If = 0 V	ton & toff Time Ic = 18mA, V _{ce} = 5V, R _L = 50Ω		Off State Dark Current If = 0, V _{ce} = 15V TA = 100°C uA	Typical Characteristics Figures
					Turn On usec	Turn Off usec		
H11F1	2500	200	300	30	15	15	50	1-7
H11F2	2500	330	300	30	15	15	50	1-7
H11F3	2500	470	300	15	15	15	50	1-7

ABSOLUTE MAXIMUM RATINGS (TA = 25°C)

Part Number	INFRARED DIODE				DETECTOR		
	Power Dissipation* mW	Forward Current, Continuous mA	If Peak A	Reverse Voltage V	Power Dissipation† mW	Breakdown Voltage V	Detector Current Continuous mA
H11F1	150	60	3.0	6.0	300	±30	±100
H11F2	150	60	3.0	6.0	300	±30	±100
H11F3	150	60	3.0	6.0	300	±15	±100

*Derate 2.0 mW/°C above 25°C

†Derate 4.0 mW/°C above 25°C

‡Pulse width 1.0 usec 300 pps



THREE-FIVE SYSTEMS, INC.

Optoelectronics Group

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OPTOCOUPLED

T-41-89

OPTOCOUPLED—FET OUTPUT TYPICAL CHARACTERISTICS

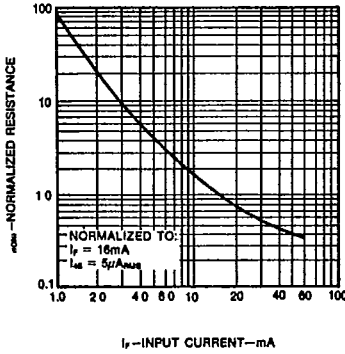


FIGURE 1—Resistance vs Input Current

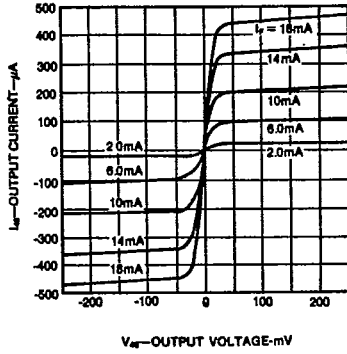


FIGURE 2—Output Characteristics

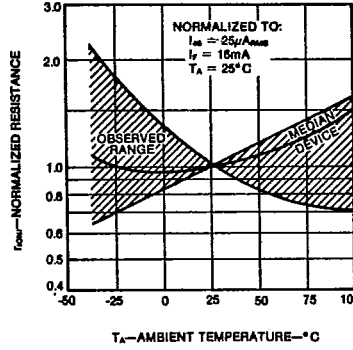


FIGURE 3—Resistance vs Temperature

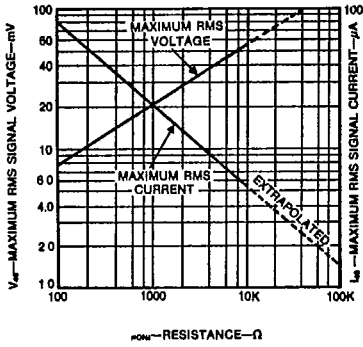


FIGURE 4—Region of Linear Resistance

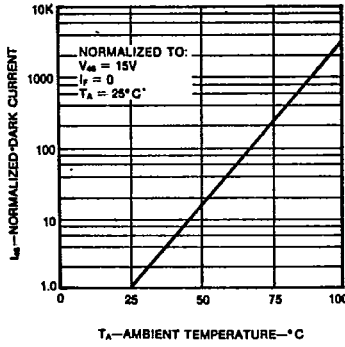


FIGURE 5—Off State Current vs Temperature

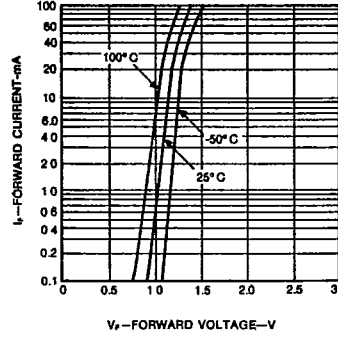


FIGURE 6—Forward Voltage vs Forward Current

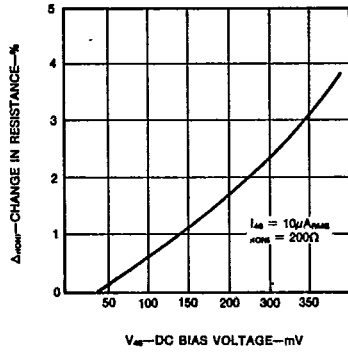


FIGURE 7—Relative Non-Linearity vs dc Bias

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