

Electrical Specifications (-40°C ≤ T_A ≤ +85°C unless otherwise specified)**RELAY**

INPUT CHARACTERISTICS	Limits	Units
Minimum Control Current (see figure 1)	3.0	mA
Maximum Control Current for Off-State Resistance @T _A =+25°C	0.4	mA
Control Current Range (Caution: current limit input LED, see figure 6)	3.0 to 25	mA
Maximum Reverse Voltage	6.0	V
OUTPUT CHARACTERISTICS	Limits	Units
Operating Voltage Range	0 to ±400	V _(DC or AC peak)
Maximum Load Current @ T _A =+40°C 5mA Control (see figure 1)	120	mA
Maximum On-State Resistance @T _A =+25°C For 50mA pulsed load, 5mA Control (see figure 4)	35	Ω
Maximum Off-State Leakage @T _A =+25°C, ±400V (see figure 5)	1.0	μA
Maximum Turn-On Time @T _A =+25°C (see figure 7) For 50mA, 100 V _{DC} Load, 5mA Control	2.0	ms
Maximum Turn-Off Time @T _A =+25°C (see figure 7) For 50mA, 100 V _{DC} Load, 5mA Control	0.5	ms
Maximum Output Capacitance @ 50V _{DC}	12	pF

DETECTOR

INPUT CHARACTERISTICS	Limits	Units
Minimum Control Current @ I _C = 2mA, V _{CE} = 0.5V	6.0	mA
Maximum Control Current for Off-State Leakage I _C =1μA, V _{CE} =5V @T _A =+25°C	5	μA
Control Current Range (Caution: current limit input LED, see figure 6)	6.0 to 25	mA
OUTPUT CHARACTERISTICS	Limits	Units
Minimum Collector-Emitter Breakdown Voltage @ I _C = 10μA	20	V _{DC}
Minimum Current Transfer Ratio @ I _{LED} = 6mA, V _{CE} = 5V (see figure 9)	33	%
Maximum Saturation Voltage @ I _{LED} = 16mA, I _C = 2mA	0.5	V
Maximum Leakage Current @ I _{LED} =0mA, V _{CE} = 5V	500	nA
Maximum Power Dissipation @T _A =+25°C (derate linearly 2.0mW/°C)	150	mW

COMBINED

GENERAL CHARACTERISTICS	Limits	Units
Minimum Dielectric Strength, Input-Output	3750	V _{RMS}
Minimum Dielectric Strength, Relay-Detector	1000	V _{DC}
Minimum Insulation Resistance, Input-Output @T _A =+25°C, 50%RH, 100V _{DC}	10 ¹²	Ω
Maximum Capacitance, Input-Output	3.0	pF
Maximum Pin Soldering Temperature (10 seconds maximum)	+260	°C
Ambient Temperature Range:	-40 to +85	
	Storage	-40 to +100

International Rectifier does not recommend the use of this product in aerospace, avionics, military or life support applications. Users of this International Rectifier product in such applications assume all risks of such use and indemnify International Rectifier against all damages resulting from such use.

Connection Diagram

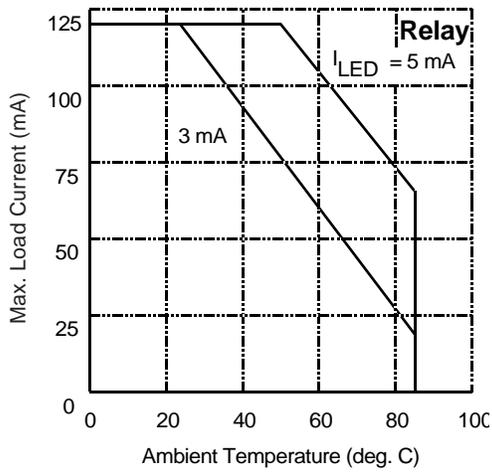
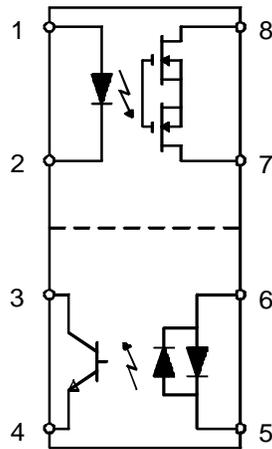


Figure 1. Current Derating Curve

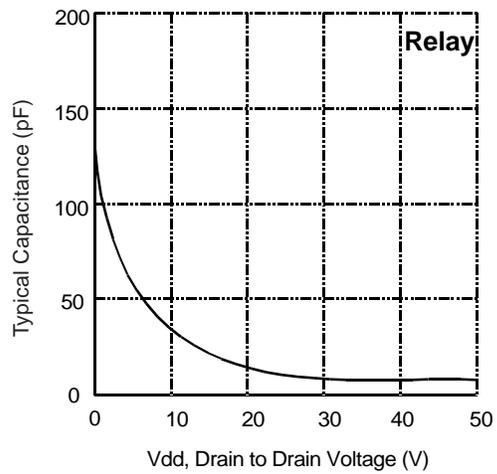


Figure 2. Typical Output Capacitance

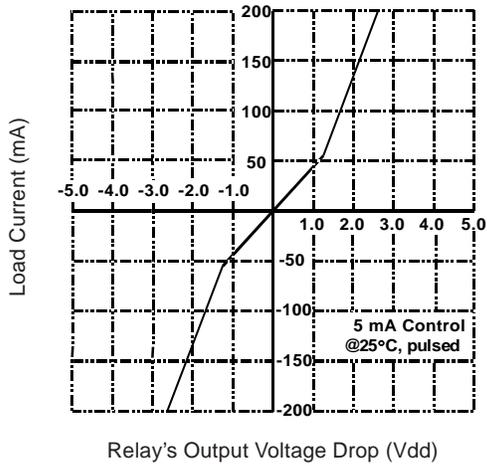


Figure 3. Linearity Characteristics

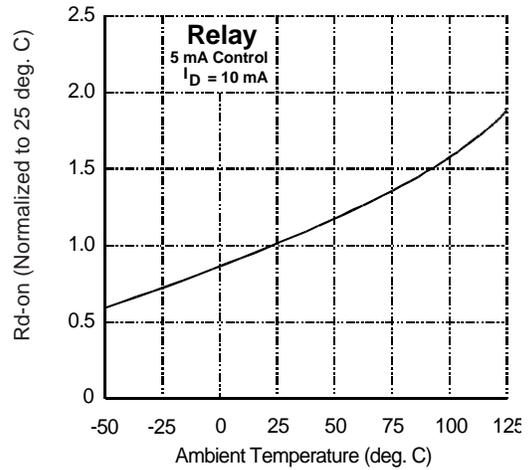


Figure 4. Typical Normalized On-Resistance

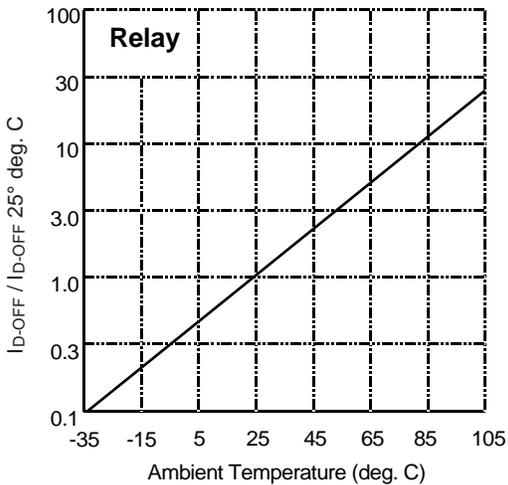


Figure 5. Typical Normalized Off-State Leakage

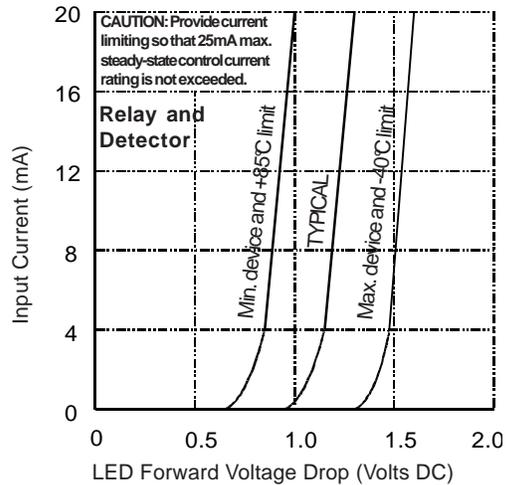


Figure 6. Input Characteristics (Current Controlled)

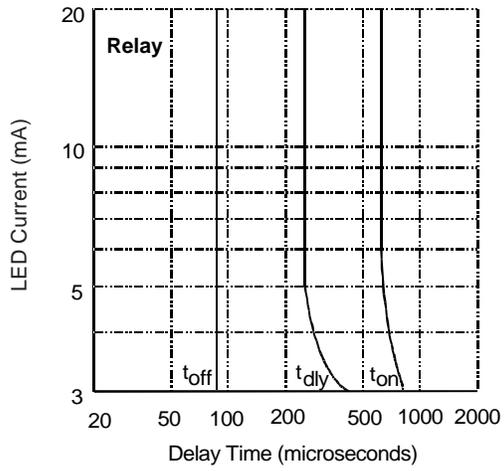


Figure 7. Typical Delay Times

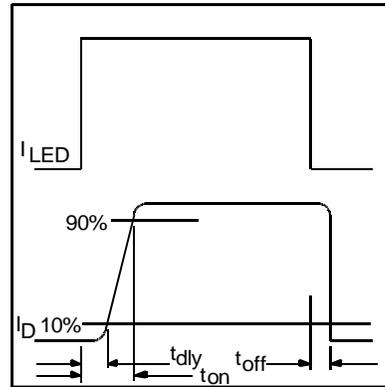


Figure 8. Delay Time Definitions

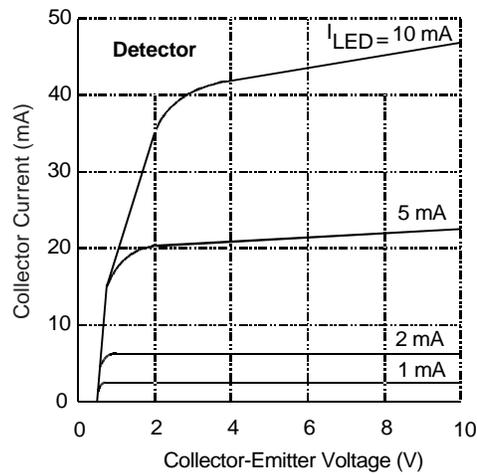


Figure 9. Typical Transfer Characteristics

Case Outline

