

Electrical Specifications (-40°C \leq T_A \leq +85°C unless otherwise specified)

INPUT CHARACTERISTICS	Part Nu	Part Numbers	
	PVT312L	PVT312	
Minimum Control Current (see figures 1 and 2)	2	2.0	
Maximum Control Current for Off-State Resistance @ T _A =+25°C	0.	0.4	
Control Current Range (Caution: current limit input LED, see figure 6)	2.0 t	2.0 to 25	
Maximum Reverse Voltage	6	6.0	

OUTPUT CHARACTERISTICS	PVT	312L	PVT312	
Operating Voltage Range	0 to ±250			V(DC or AC peak)
Maximum Load Current @ T _A =+40°C, 5mA Control (see figures 1 and 2)				, , ,
A Connection	17	0	190	mA (AC or DC)
B Connection	190		210	mA (DC)
C Connection	300		320	mA (DC)
Maximum On-State Resistance @T _A =+25°C for 50mA pulsed load				
5mA Control (see figure4)				
A Connection	15	5	10	Ω
B Connection	8	}	5.5	Ω
C Connection	4.25		3	Ω
Maximum Off-State Leakage @T _A =+25°C, ±250V (see figure 5)	1.0		μA	
Current Limit @T _A =+25°C, 5mA Control				
Connection:	Α	С		
Minimum	190	330	n/a	mA
Maximum	300	560	n/a	mA
Maximum Turn-On Time @T _A =+25°C (see figure 7)	3.0		.0	ms
for 50mA, 100 V _{DC} load, 5mA Control				
Maximum Turn-Off Time @T _A =+25°C (See Fig. 6)	0.5			ms
For 50mA, 100 V _{DC} load, 5mA Control				
Maximum Output Capacitance @ 50VDC	50			pF

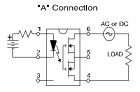
GENERAL CHARACTERISTIC	S	ALL MODELS	
Minimum Dielectric Strength, Input-Outp	out	4000	V_{RMS}
Minimum Insulation Resistance, Input-O	utput @T _A =+25°C, 50%RH, 100V _{DC}	10 ¹²	Ω
Maximum Capacitance, Input-Output		1.0	pF
Maximum Pin Soldering Temperature (1	0 seconds maximum)	+260	°C
Ambient Temperature Range:	Operating	-40 to +85	°C
	Storage	-40 to +100	

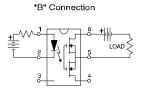
International Rectifier does not recommend the use of this product in aerospace, avionics, military or life support applications. Users of this International Rectifier product in such applications assume all risks of such use and indemnify International Rectifier against all damages resulting from such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

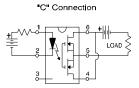
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Connection Diagrams







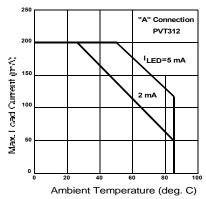


Figure 1. Typical Current Derating Curves

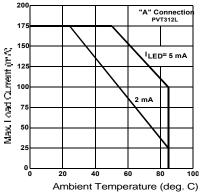
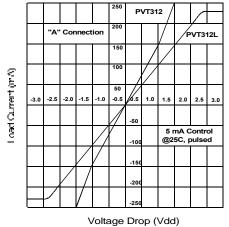
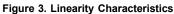


Figure 2. Typical Current Derating Curves





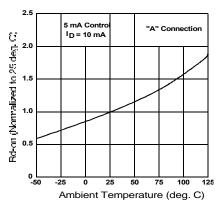


Figure 4. Typical Normalized On-Resistance

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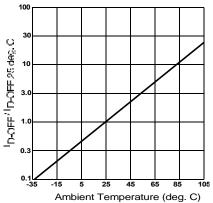


Figure 5. Typical Normalized Off-State Leakage

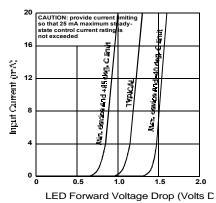


Figure 6. Input Characteristics (Current Controlled)

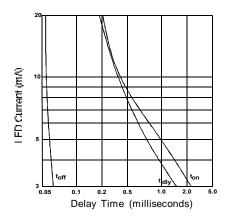


Figure 7. Typical Delay Times

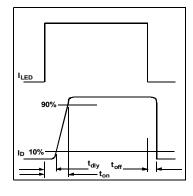


Figure 8. Delay Time Definitions

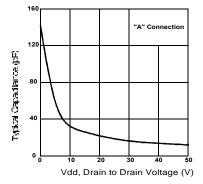
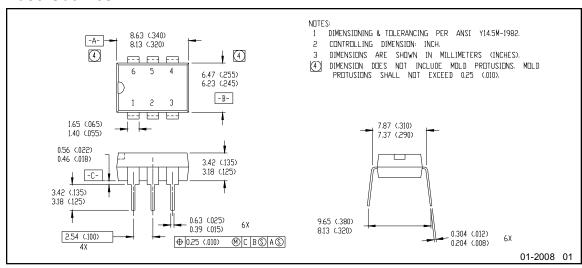


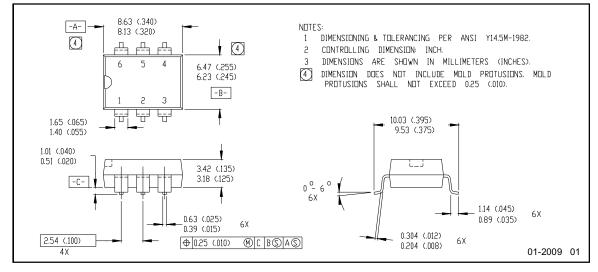
Figure 9. Typical Output Capacitance

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Case Outlines





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