Electrical Specifications 0-400V, 240ma,AC (T_A = +25°C) unless otherwise specified)

INPUT CHARACTERISTICS	Limits	Units
Minimum Control Current (see figure 1)	3.0	mA
Maximum Control Current for Off-State Resistance	0.4	mA
Control Current Range (Caution: current limit input LED, see figure 5)	3.0 to 25	mA
Maximum Reverse Voltage	6.0	V

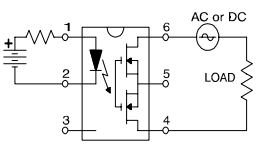
OUTPUT CHARACTERISTICS	Limits	Units
Operating Voltage Range	0 to ±400	V peak
Maximum Load Current @ T_A=+40°C 5mA Control (see figure 1)		
A Connection	240	mA
B Connection	260	mA
C Connection	360	mA
Maximum On-State Resistance @T_A=+25°C 100mA Pulsed Load, 5mA Control (see figures 2 & 3)		
A Connection	6	Ω
B Connection	3	Ω
C Connection	2	Ω
Max. pulsed Load Current @T_A=+25°C, ±400V, 5mA Control (10mS @ 10% duty cycle)	750	mA
Maximum Off-State Leakage @T_A=+25°C, ±400V	1.0	µA
Maximum Turn-On Time @T_A=+25°C (see figures 6 & 7) For 50mA, 100 V_{DC} load, 5mA Control (5mS pulse width @ 50% duty cycle)	3.0	ms
Maximum Turn-Off Time @T_A=+25°C (see figures 6 & 7) For 50mA, 100 V_{DC} load, 5mA Control (5mS pulse width @ 50% duty cycle)	0.5	ms
Maximum Output Capacitance @ 50V_{DC}, f=1MHz (Cout, see figure 8)	40.0	pF

GENERAL CHARACTERISTICS		Limits	Units
Minimum Dielectric Strength, Input-Output		4000	V_{RMS}
Minimum Insulation Resistance, Input-Output		10^{12}	Ω
Maximum Capacitance, Input-Output Vd=0V, f=1MHz		1.0	pF
Maximum Pin Soldering Temperature (10 seconds maximum)		+260	°C
Ambient Temperature Range:	Operating	-40 to +85	
	Storage	-40 to +100	

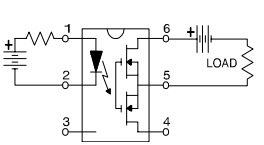
International Rectifier does not recommend the use of this product in aerospace, avionics, military or life support applications. Users of this International Rectifier product in such applications assume all risks of such use and indemnify International Rectifier against all damages resulting from such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

Connection Diagrams

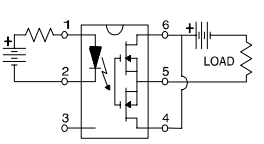
"A" Connection



"B" Connection



"C" Connection



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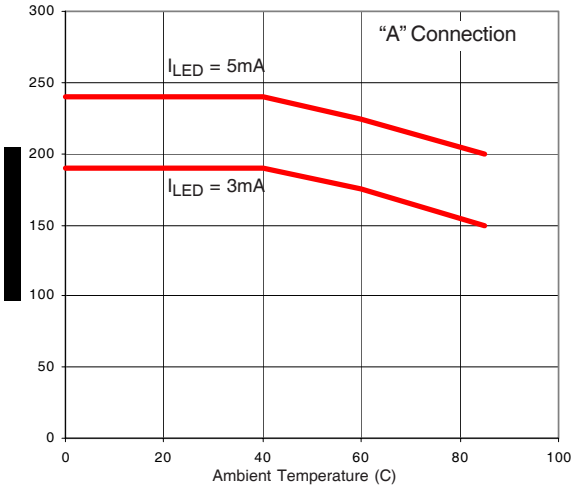

Figure 1. Current Derating Curves

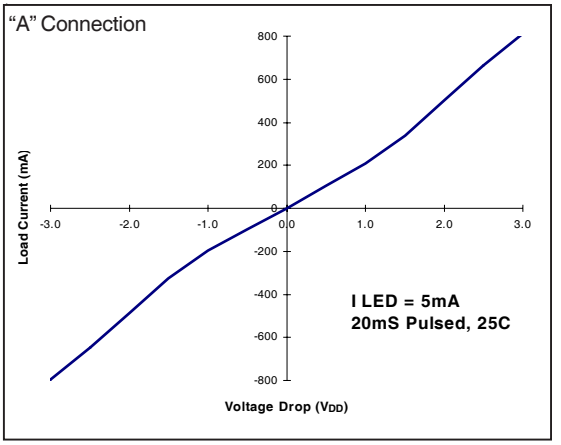

Figure 2. Typical On Characteristics

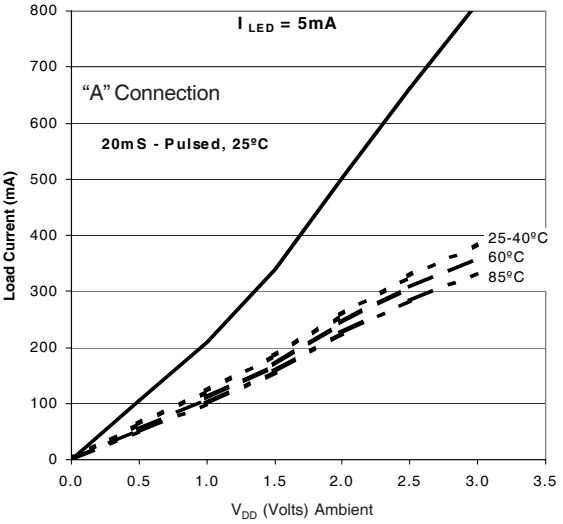

Figure 3. Typical On-Characteristics

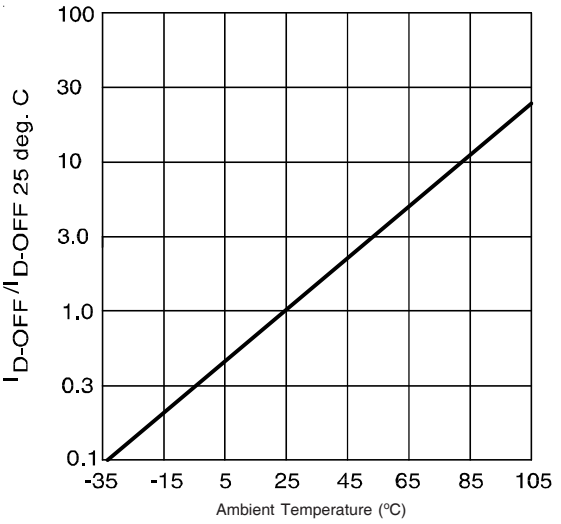

Figure 4. Typical Normalized Off-State Leakage

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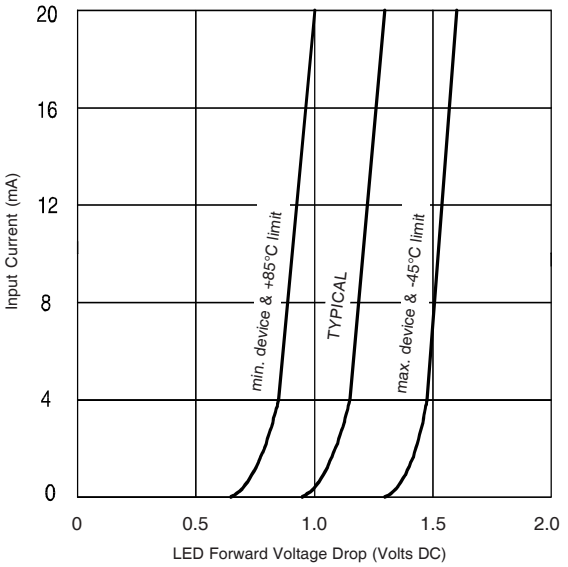

Figure 5. Input Characteristics (Current Controlled)

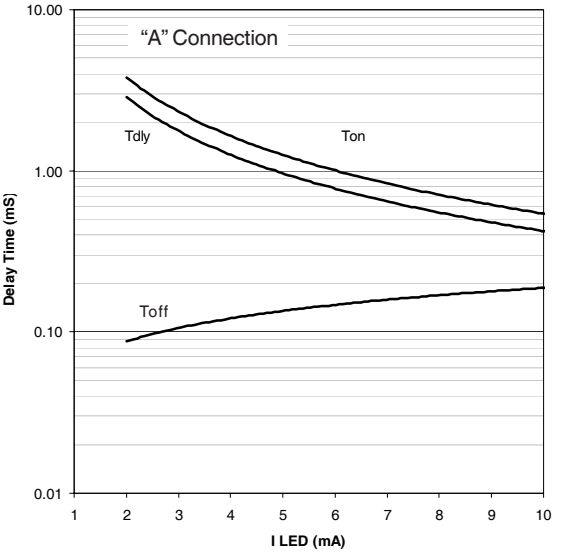

Figure 6. Typical Delay Times

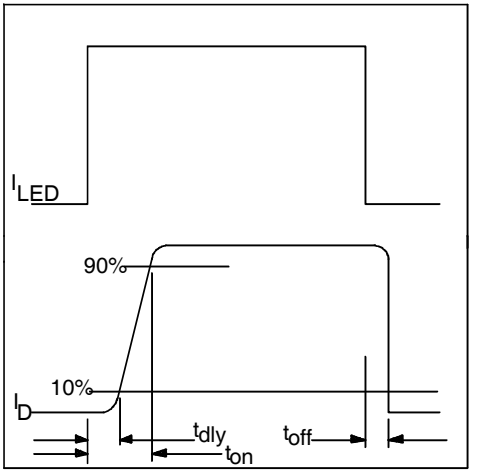

Figure 7. Delay Time Definitions

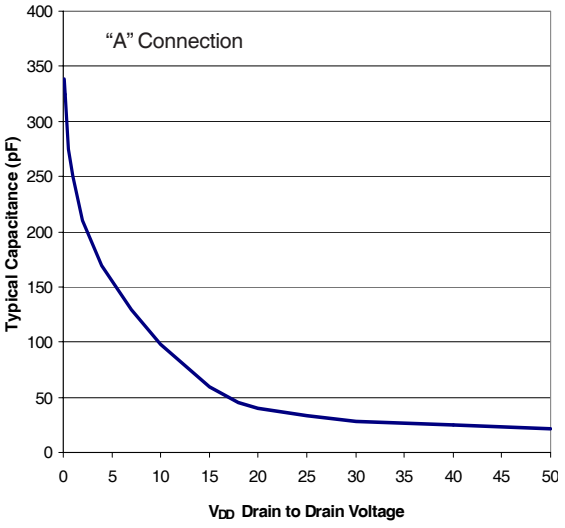

Figure 8. Typical Output Capacitance

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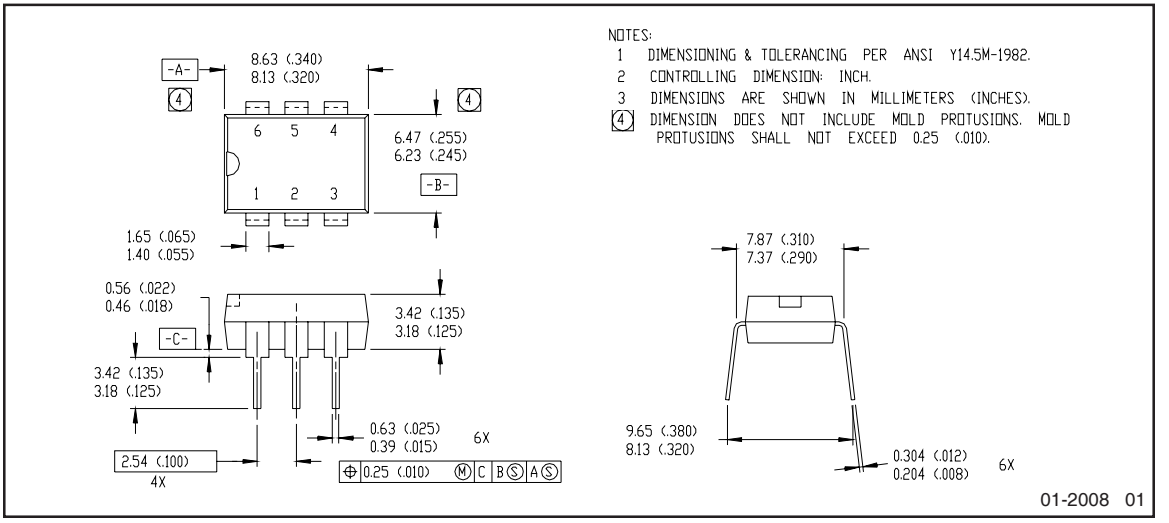
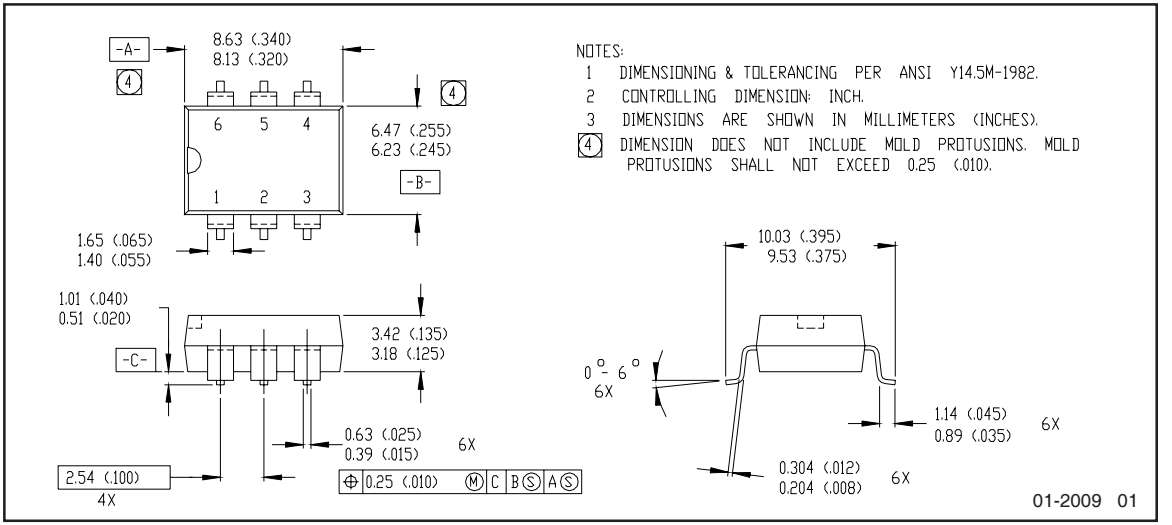
Case Outlines





Note: For the most current drawing please refer to IR website at: http://www.irf.com/package/

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Qualification information†

Qualification level	Industrial (per JEDEC JESD47I †† guidelines)	
Moisture Sensitivity Level	PVT412APbF	N/A
	PVT412ASPbF	MSL4 (per JEDEC J-STD-020E & JEDEC J-STD-033C ††)
	PVT412AS-TPbF	
RoHS compliant	Yes	

† Qualification standards can be found at International Rectifier's web site: http://www.irf.com/product-info/reliability
†† Applicable version of JEDEC standard at the time of product release

Revision History

Date	Comments
6/2/2015	• Added Qualification Information Table on page 6 • Updated data sheet with new IR corporate template

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