

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

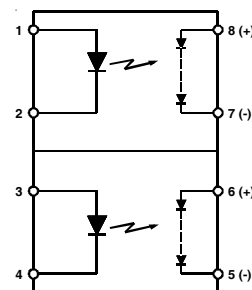
INPUT CHARACTERISTICS	Limits	Units
Min. Input Current (See Fig.1)	5.0	mA
Input Current Range (See Fig. 1)	3.0 to 25	mA
Max. Continuous Input Current @ T _A =+25°C	40	mA
LED Forward Voltage Drop @ 5mA, T _A =+25°C (See Fig. 3)	1.4	V
Max. Reverse Voltage	6.0	V
Max. Reverse Current @ -6V _{DC} , T _A =+25°C	10	μA

OUTPUT CHARACTERISTICS	Limits	Units
Min. Forward Voltage	8.0	V _{DC}
Max. Reverse Current	10	μA _{DC}

COUPLED CHARACTERISTICS	Limits	Units
Min. Output Voltage @ I _{LED} = 10mA, R _L = 10MΩ @ T _A =0°C to +70°C (See Fig. 1 & 2)	5	V
Max. Output Voltage @ I _{LED} = 10mA, R _L = 10MΩ @ T _A =0°C to +70°C (See Fig. 1 & 2)	10	V
Max. Voltage Differential Between Outputs @ I _{LED} = 5mA, R _L = 10MΩ	1.0	V
Min. Output Short-Circuit Current @ I _{LED} = 5mA, @ T _A =+25°C (See Fig. 1 & 2)	1.65	μA
Typical Output Short-Circuit Current @ I _{LED} = 10mA, @ T _A =+25°C (See Fig. 1 & 2)	5	μA
Max. Turn-On Time @ I _{LED} = 5mA, C _{LOAD} = 200pF (See Fig. 4)	2.5	ms
Max. Turn-Off Time @ I _{LED} = 5mA, C _{LOAD} = 200pF (See Fig. 4)	.5	ms
Off-State Clamping Resistance: minimum	350	Ω
maximum	1500	Ω

GENERAL CHARACTERISTICS	Limits	Units
Min. Dielectric Strength, Input-Output	3750	V _{RMS}
Min. Dielectric Strength, Output-to-Output	1200	V _{DC}
Min. Insulation Resistance, Input-to-Output @ T _A =+25°C, 50%RH, 100V _{DC}	10 ¹²	Ω
Max. Capacitance, Input-Output	5.0	pF
Max. Pin Soldering Temperature (10 seconds max.)	+260	°C
Ambient Temperature Range: Operating	-40 to +85	°C
Storage	-40 to +125	°C

Connection Diagram



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.

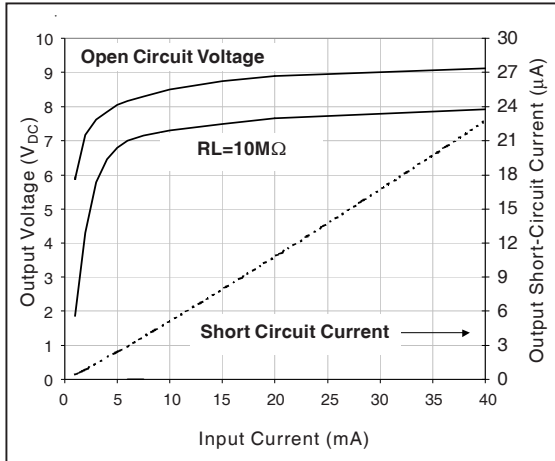


Figure 1. Typical Output Characteristics

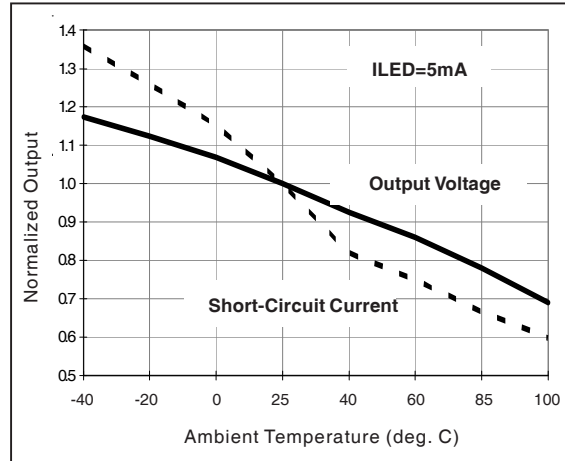


Figure 2. Typical Variation of Output

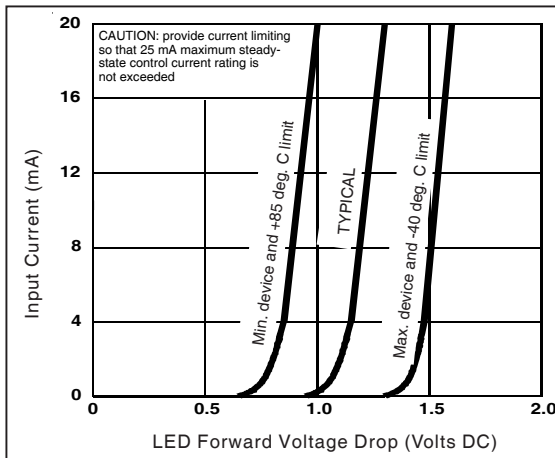


Figure 3. Input Characteristics (Current Controlled)

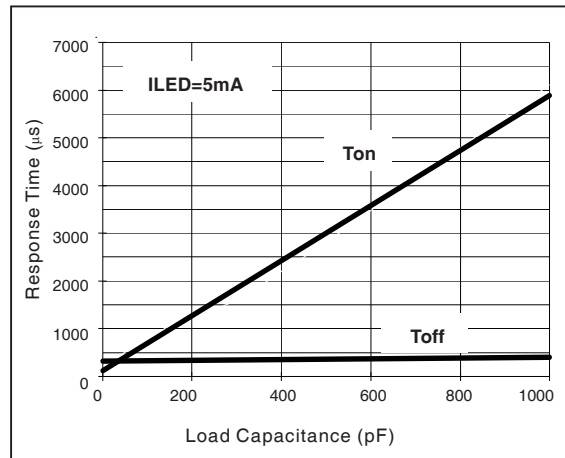
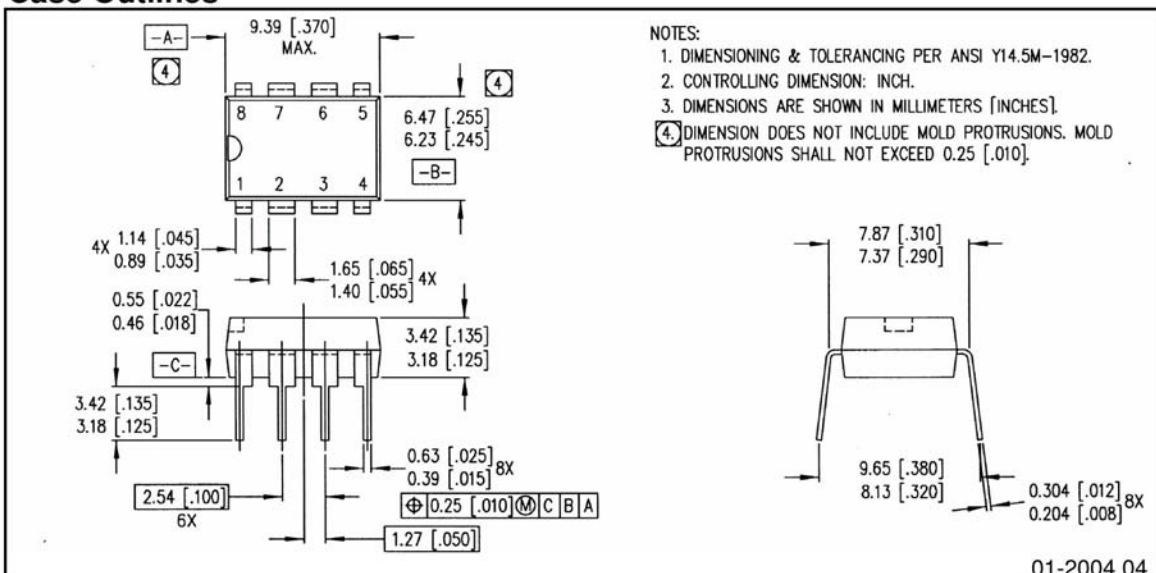
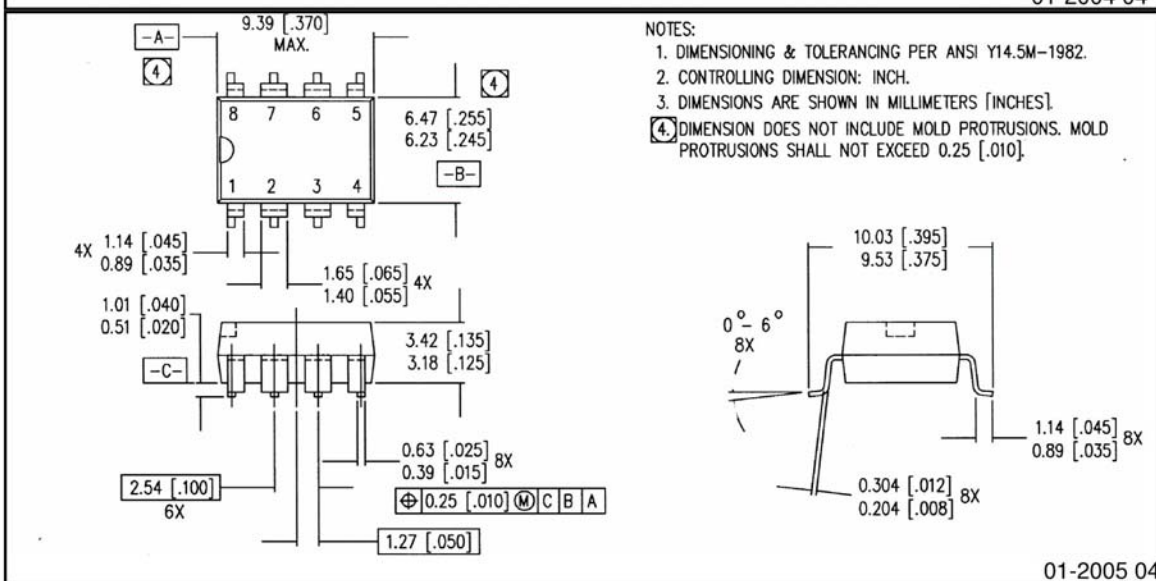


Figure 4. Typical Response Time

Case Outlines



01-2004 04



01-2005 04

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

Qualification information[†]

Qualification level	Industrial (per JEDEC JESD47I ^{††} guidelines)	
Moisture Sensitivity Level	PVI5033RPbF	N/A
	PVI5033RSPbF	MSL4
	PVI5033RS-TPbF	(per JEDEC J-STD-020E & JEDEC J-STD-033C ^{††})
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	Comment
4/24/2015	- Added Qualification Information table on page 5. - Updated data sheet based on corporate template.

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