

Electrical Specifications ($-40^{\circ}\text{C} \leq T_A \leq +85^{\circ}\text{C}$ unless otherwise specified)

INPUT CHARACTERISTICS	PVA1352N	PVA1354N	Units
Minimum Control Current (see figures 1 and 2) For 325mA Continuous Load Current For 370mA Continuous Load Current For 190mA Continuous Load Current	2 5 5		DC mA@25°C mA@40°C mA@85°C
Maximum Control Current for Off-State Resistance at 25°C	10		μA(DC)
Control Current Range (Caution: current limit input LED. See figure 6)	2.0 to 25		mA(DC)
Maximum Reverse Voltage	6.0		V(DC)

OUTPUT CHARACTERISTICS	PVA1352N	PVA1354N	Units
Operating Voltage Range	0 to ± 100		V _(peak)
Maximum Load Current 40°C, I _{LED} 5mA	375		mA(DC)
Response Time @25°C (see figures 7 and 8) Maximum T _(on) @ 12mA Control, 50 mA Load, 50 VDC Maximum T _(off) @ 12mA Control, 50 mA Load, 50 VDC	150 125		μs μs
Maximum On-state Resistance 25°C (Pulsed) (figure 4) 50 mA Load, 5mA Control	5		Ω
Minimum Off-state Resistance 25°C @ 80 VDC (see figure 5)	10 ⁸	10 ¹⁰	Ω
Maximum Thermal Offset Voltage @ 5.0mA Control	0.2		μvolts
Minimum Off-State dv/dt	1000		V/μs
Typical Output Capacitance (see figure 9)	11pF		@ 50VDC

GENERAL CHARACTERISTICS (PVA1352N and PVA1354N)		Units
Dielectric Strength: Input-Output		4000
Insulation Resistance: Input-Output @ 90V _{DC}		10 ¹² @ 25°C - 50% RH
Maximum Capacitance: Input-Output		1.0
Max. Pin Soldering Temperature (1.6mm below seating plane, 10 seconds max.)		+260
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.

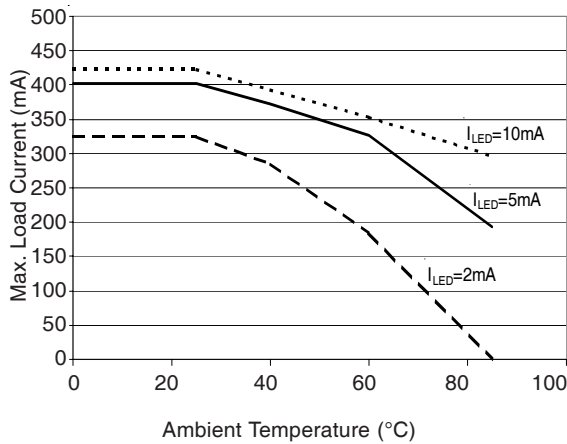


Figure 1. Current Derating Curves

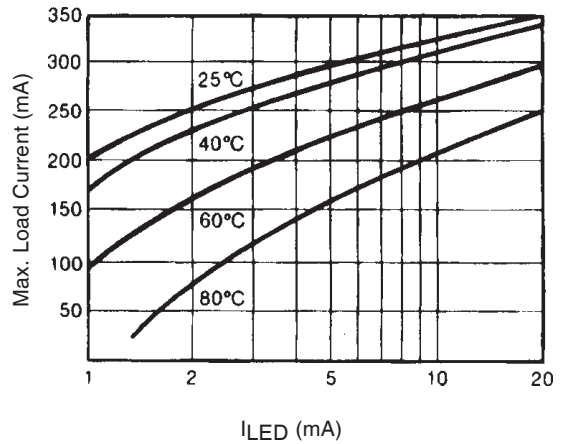


Figure 2. Typical Control Current Requirements

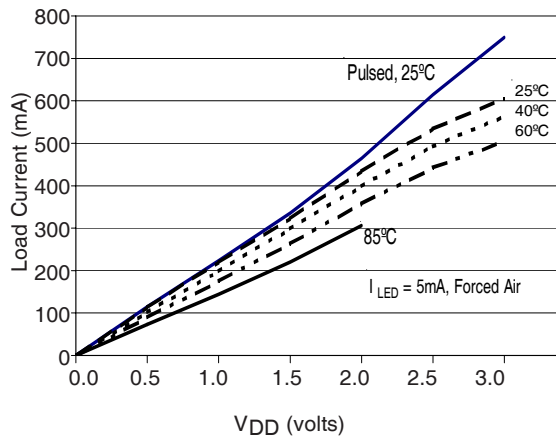


Figure 3. Typical On Characteristics

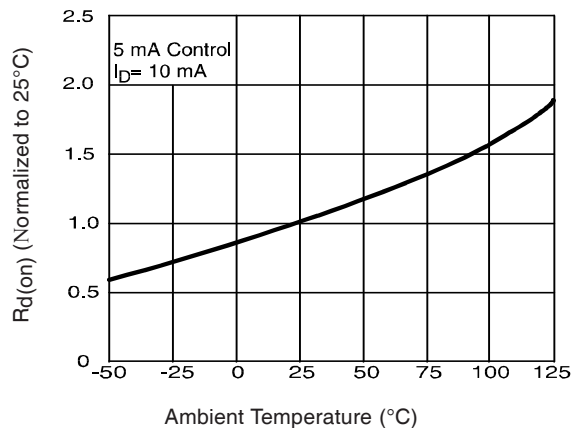


Figure 4. Typical Normalized On-Resistance

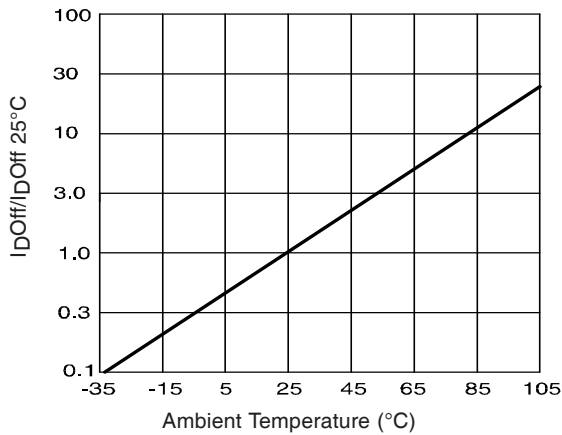


Figure 5. Normalized Off-State Leakage

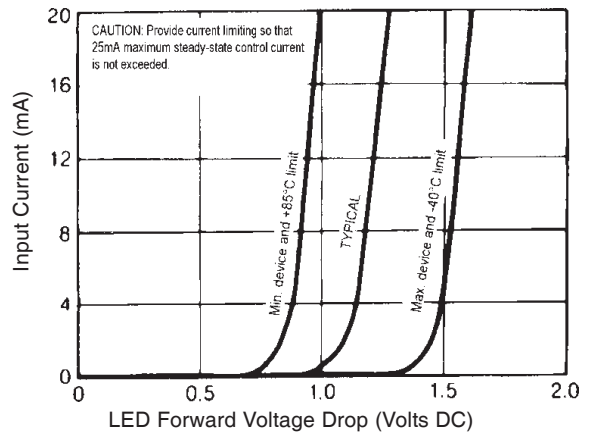


Figure 6. Input Characteristics (Current Controlled)

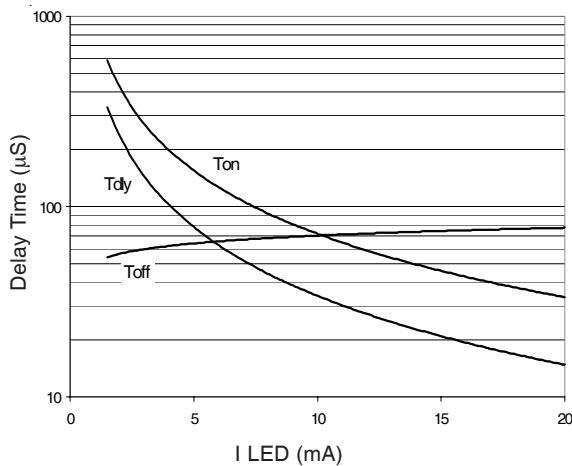


Figure 7. Typical Delay Times

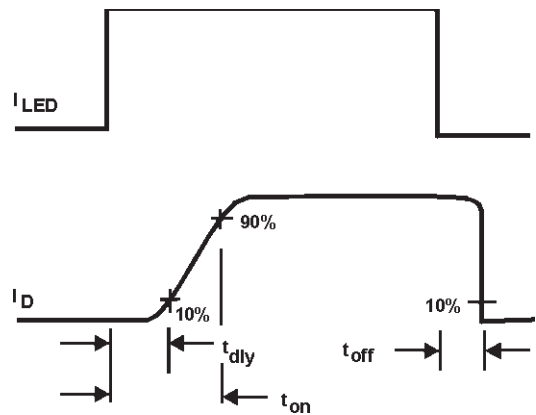


Figure 8. Delay Time Definitions

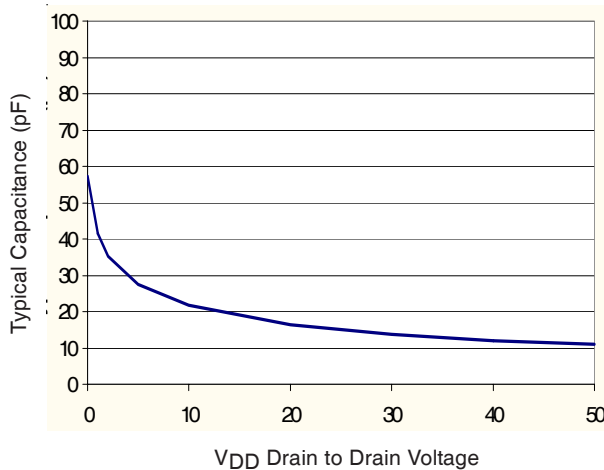
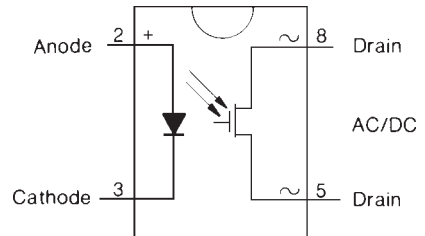
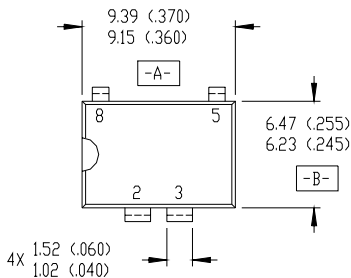


Figure 9. Typical Output Capacitance

Wiring Diagram

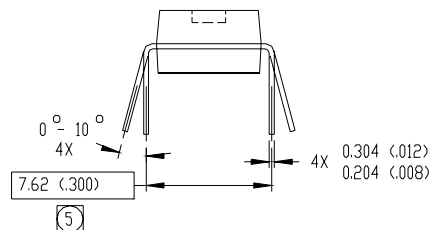
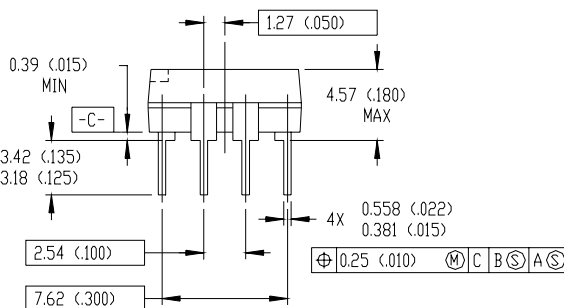


Case Outlines



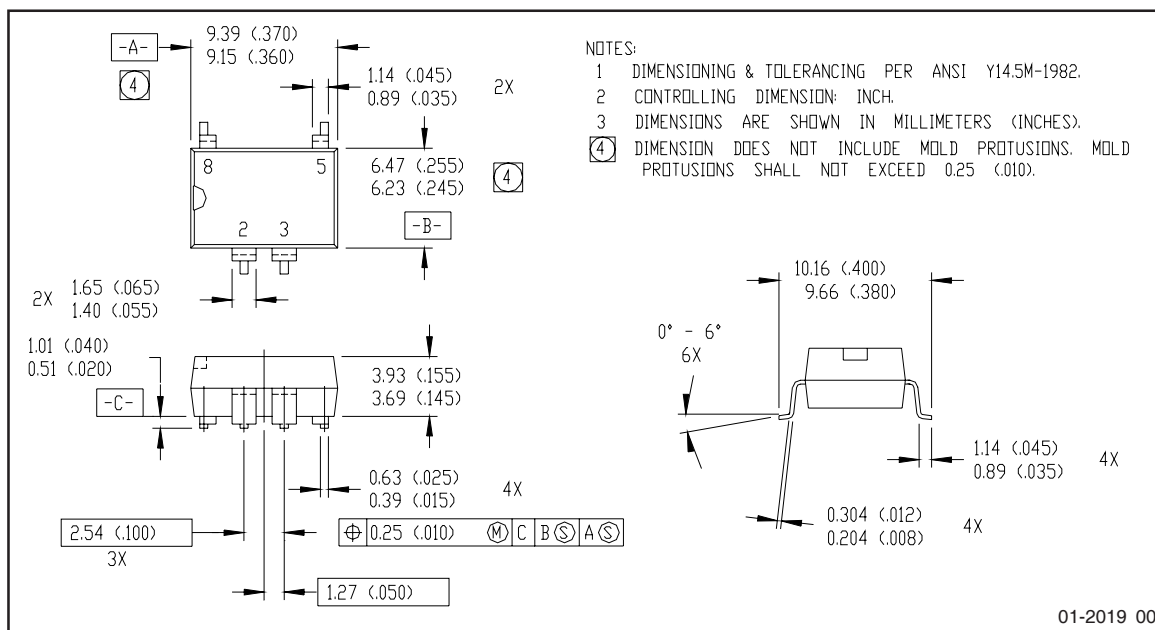
NOTES:

1. DIMENSIONING & TOLERANCING PER ANSI Y14.5M-1982.
2. CONTROLLING DIMENSION: INCH.
3. DIMENSIONS ARE SHOWN IN MILLIMETERS (INCHES).
4. OUTLINE CONFORMS TO JEDEC OUTLINE MS-001AB.
- ⑤ MEASURED WITH THE LEADS CONSTRAINED TO BE PERPENDICULAR TO DATUM PLANE C.



01-2013 00 (MS-001AB)

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



01-2019 00

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Qualification information[†]

Qualification level	Industrial (per JEDEC JESD47I ^{††} guidelines)	
Moisture Sensitivity Level	PVA1352NPbF	N/A
	PVA1354NPbF	
	PVA1352NSPbF	MSL4 (per JEDEC J-STD-020E & JEDEC J-STD-033C ^{††})
	PVA1354NSPbF	
	PVA1354NS-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
4/24/2015	- Added Qualification Information Table on page 6 - Updated data sheet with new IR corporate template

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Data and specifications subject to change without notice

To contact International Rectifier, please visit <http://www.irf.com/whoto-call/>