

**IRF2907ZPbF**  
**IRF2907ZSPbF**  
**IRF2907ZLPbF**

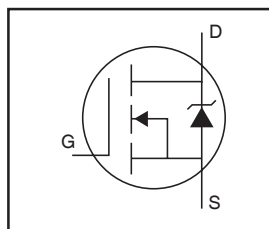
HEXFET® Power MOSFET

**Features**

- Advanced Process Technology
- Ultra Low On-Resistance
- 175°C Operating Temperature
- Fast Switching
- Repetitive Avalanche Allowed up to  $T_{jmax}$
- Lead-Free

**Description**

This HEXFET® Power MOSFET utilizes the latest processing techniques to achieve extremely low on-resistance per silicon area. Additional features of this design are a 175°C junction operating temperature, fast switching speed and improved repetitive avalanche rating. These features combine to make this design an extremely efficient and reliable device for use in a wide variety of applications.



$$V_{DSS} = 75V$$

$$R_{DS(on)} = 4.5m\Omega$$

$$I_D = 160A^*$$



TO-220AB  
IRF2907ZPbF



D²Pak  
IRF2907ZSPbF



TO-262  
IRF2907ZLPbF

**Absolute Maximum Ratings**

|                           | Parameter                                                   | Max.                   | Units |
|---------------------------|-------------------------------------------------------------|------------------------|-------|
| $I_D @ T_C = 25^\circ C$  | Continuous Drain Current, $V_{GS} @ 10V$ (Silicon Limited)  | 170                    | A     |
| $I_D @ T_C = 100^\circ C$ | Continuous Drain Current, $V_{GS} @ 10V$ (See Fig. 9)       | 120                    |       |
| $I_D @ T_C = 25^\circ C$  | Continuous Drain Current, $V_{GS} @ 10V$ (Wirebond Limited) | 160 *                  |       |
| $I_{DM}$                  | Pulsed Drain Current ①                                      | 680                    |       |
| $P_D @ T_C = 25^\circ C$  | Maximum Power Dissipation                                   | 300                    | W     |
|                           | Linear Derating Factor                                      | 2.0                    | W/°C  |
| $V_{GS}$                  | Gate-to-Source Voltage                                      | $\pm 20$               | V     |
| $E_{AS}$                  | Single Pulse Avalanche Energy (Thermally Limited) ②         | 270                    | mJ    |
| $E_{AS} (tested)$         | Single Pulse Avalanche Energy Tested Value ②                | 690                    |       |
| $I_{AR}$                  | Avalanche Current ①                                         | See Fig.12a,12b,15,16  | A     |
| $E_{AR}$                  | Repetitive Avalanche Energy ③                               |                        | mJ    |
| $T_J$                     | Operating Junction and                                      | -55 to + 175           | °C    |
| $T_{STG}$                 | Storage Temperature Range                                   |                        |       |
|                           | Soldering Temperature, for 10 seconds                       | 300 (1.6mm from case ) |       |
|                           | Mounting torque, 6-32 or M3 screw                           | 10 lbf•in (1.1N•m)     |       |

**Thermal Resistance**

|                 | Parameter                                      | Typ. | Max.  | Units |
|-----------------|------------------------------------------------|------|-------|-------|
| $R_{\theta JC}$ | Junction-to-Case ④                             | —    | 0.50⑤ | °C/W  |
| $R_{\theta CS}$ | Case-to-Sink, Flat, Greased Surface            | 0.50 | —     |       |
| $R_{\theta JA}$ | Junction-to-Ambient                            | —    | 62    |       |
| $R_{\theta JA}$ | Junction-to-Ambient (PCB Mount, steady state)⑥ | —    | 40    |       |

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www.irf.com

## Static @ $T_J = 25^\circ\text{C}$ (unless otherwise specified)

|                              | Parameter                            | Min. | Typ.  | Max. | Units      | Conditions                                                                  |
|------------------------------|--------------------------------------|------|-------|------|------------|-----------------------------------------------------------------------------|
| $V_{(BR)DSS}$                | Drain-to-Source Breakdown Voltage    | 75   | —     | —    | V          | $V_{GS} = 0V, I_D = 250\mu A$                                               |
| $\Delta BV_{DSS}/\Delta T_J$ | Breakdown Voltage Temp. Coefficient  | —    | 0.069 | —    | V/°C       | Reference to $25^\circ\text{C}, I_D = 1mA$                                  |
| $R_{DS(on)}$                 | Static Drain-to-Source On-Resistance | —    | 3.5   | 4.5  | m $\Omega$ | $V_{GS} = 10V, I_D = 75A$ ④                                                 |
| $V_{GS(th)}$                 | Gate Threshold Voltage               | 2.0  | —     | 4.0  | V          | $V_{DS} = V_{GS}, I_D = 250\mu A$                                           |
| $g_{fs}$                     | Forward Transconductance             | 180  | —     | —    | S          | $V_{DS} = 25V, I_D = 75A$                                                   |
| $I_{DSS}$                    | Drain-to-Source Leakage Current      | —    | —     | 20   | $\mu A$    | $V_{DS} = 75V, V_{GS} = 0V$                                                 |
|                              |                                      | —    | —     | 250  |            | $V_{DS} = 75V, V_{GS} = 0V, T_J = 125^\circ\text{C}$                        |
| $I_{GSS}$                    | Gate-to-Source Forward Leakage       | —    | —     | 200  | nA         | $V_{GS} = 20V$                                                              |
|                              | Gate-to-Source Reverse Leakage       | —    | —     | -200 |            | $V_{GS} = -20V$                                                             |
| $Q_g$                        | Total Gate Charge                    | —    | 180   | 270  |            | $I_D = 75A$                                                                 |
| $Q_{gs}$                     | Gate-to-Source Charge                | —    | 46    | —    | nC         | $V_{DS} = 60V$                                                              |
| $Q_{gd}$                     | Gate-to-Drain ("Miller") Charge      | —    | 65    | —    |            | $V_{GS} = 10V$ ④                                                            |
| $t_{d(on)}$                  | Turn-On Delay Time                   | —    | 19    | —    | ns         | $V_{DD} = 38V$                                                              |
| $t_r$                        | Rise Time                            | —    | 140   | —    |            | $I_D = 75A$                                                                 |
| $t_{d(off)}$                 | Turn-Off Delay Time                  | —    | 97    | —    |            | $R_G = 2.5\Omega$                                                           |
| $t_f$                        | Fall Time                            | —    | 100   | —    |            | $V_{GS} = 10V$ ④                                                            |
| $L_D$                        | Internal Drain Inductance            | —    | 5.0   | —    | nH         | Between lead,<br>6mm (0.25in.)<br>from package<br>and center of die contact |
| $L_S$                        | Internal Source Inductance           | —    | 13    | —    |            |                                                                             |
| $C_{iss}$                    | Input Capacitance                    | —    | 7500  | —    | pF         | $V_{GS} = 0V$                                                               |
| $C_{oss}$                    | Output Capacitance                   | —    | 970   | —    |            | $V_{DS} = 25V$                                                              |
| $C_{rss}$                    | Reverse Transfer Capacitance         | —    | 510   | —    |            | $f = 1.0MHz$ , See Fig. 5                                                   |
| $C_{oss}$                    | Output Capacitance                   | —    | 3640  | —    |            | $V_{GS} = 0V, V_{DS} = 1.0V, f = 1.0MHz$                                    |
| $C_{oss}$                    | Output Capacitance                   | —    | 650   | —    |            | $V_{GS} = 0V, V_{DS} = 60V, f = 1.0MHz$                                     |
| $C_{oss\ eff.}$              | Effective Output Capacitance         | —    | 1020  | —    |            | $V_{GS} = 0V, V_{DS} = 0V \text{ to } 60V$                                  |

## Diode Characteristics

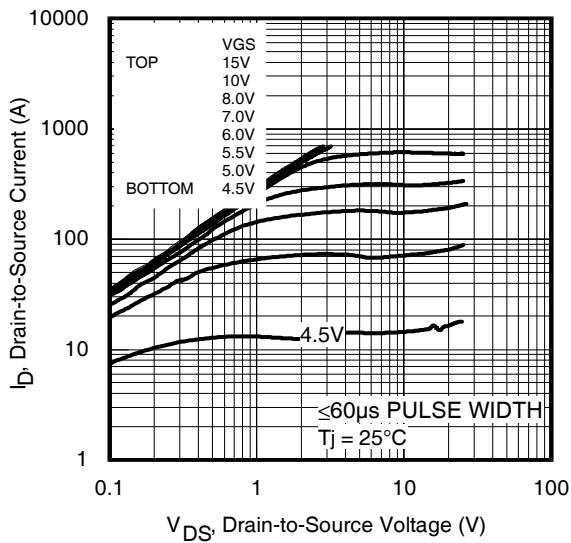
|          | Parameter                                 | Min.                                                                      | Typ. | Max. | Units | Conditions                                                              |
|----------|-------------------------------------------|---------------------------------------------------------------------------|------|------|-------|-------------------------------------------------------------------------|
| $I_S$    | Continuous Source Current<br>(Body Diode) | —                                                                         | —    | 160* | A     | MOSFET symbol<br>showing the<br>integral reverse<br>p-n junction diode. |
| $I_{SM}$ | Pulsed Source Current<br>(Body Diode) ①   | —                                                                         | —    | 680  |       |                                                                         |
| $V_{SD}$ | Diode Forward Voltage                     | —                                                                         | —    | 1.3  | V     | $T_J = 25^\circ\text{C}, I_S = 75A, V_{GS} = 0V$ ④                      |
| $t_{rr}$ | Reverse Recovery Time                     | —                                                                         | 41   | 61   | ns    | $T_J = 25^\circ\text{C}, I_F = 75A, V_{DD} = 38V$                       |
| $Q_{rr}$ | Reverse Recovery Charge                   | —                                                                         | 59   | 89   | nC    | $di/dt = 100A/\mu s$ ④                                                  |
| $t_{on}$ | Forward Turn-On Time                      | Intrinsic turn-on time is negligible (turn-on is dominated by $L_S+L_D$ ) |      |      |       |                                                                         |

## Notes:

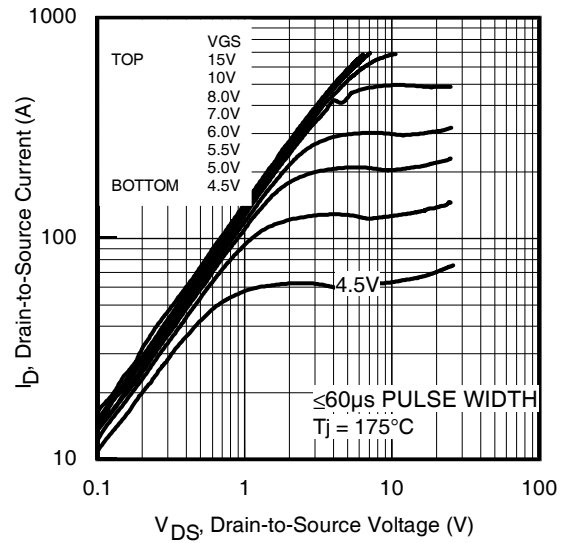
- ① Repetitive rating; pulse width limited by max. junction temperature. (See fig. 11).
- ② Limited by  $T_{Jmax}$ , starting  $T_J = 25^\circ\text{C}$ ,  $L=0.095mH$ ,  $R_G = 25\Omega$ ,  $I_{AS} = 75A$ ,  $V_{GS} = 10V$ .  
Part not recommended for use above this value.
- ③  $I_{SD} \leq 75A$ ,  $di/dt \leq 340A/\mu s$ ,  $V_{DD} \leq V_{(BR)DSS}$ ,  $T_J \leq 175^\circ\text{C}$ .
- ④ Pulse width  $\leq 1.0ms$ ; duty cycle  $\leq 2\%$ .
- ⑤  $C_{oss\ eff.}$  is a fixed capacitance that gives the same charging time as  $C_{oss}$  while  $V_{DS}$  is rising from 0 to 80%  $V_{DSS}$ .
- ⑥ Limited by  $T_{Jmax}$ , see Fig.12a, 12b, 15, 16 for typical repetitive avalanche performance.

- ⑦ This value determined from sample failure population. 100% tested to this value in production.
- ⑧ This is applied to D<sup>2</sup>Pak, when mounted on 1" square PCB (FR-4 or G-10 Material). For recommended footprint and soldering techniques refer to application note #AN-994.
- ⑨  $R_\theta$  is measured at  $T_J$  of approximately  $90^\circ\text{C}$ .
- ⑩ TO-220 device will have an  $R_{th}$  of  $0.45^\circ\text{C/W}$ .

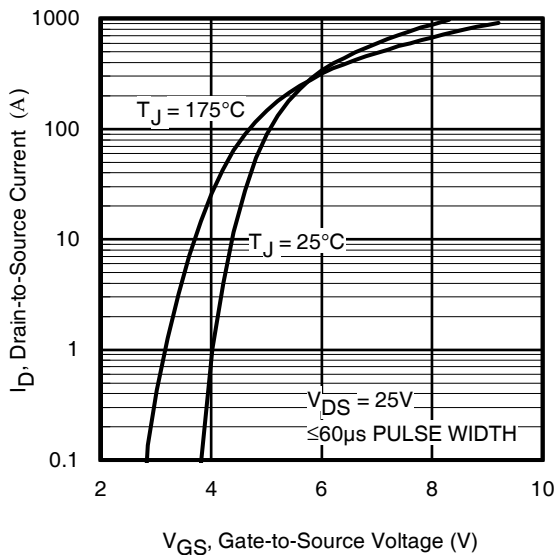
\* Calculated continuous current based on maximum allowable junction temperature. Bond wire current limit is 160A. Note that current limitations arising from heating of the device leads may occur with some lead mounting arrangements. (Refer to AN-1140 <http://www.irf.com/technical-info/appnotes/an-1140.pdf>)



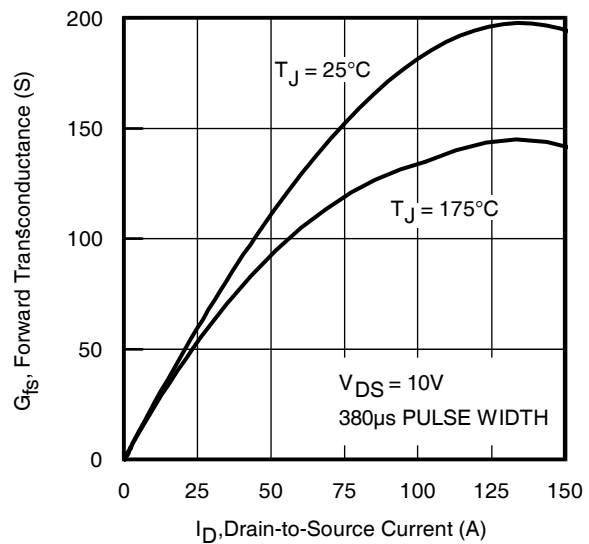
**Fig 1.** Typical Output Characteristics



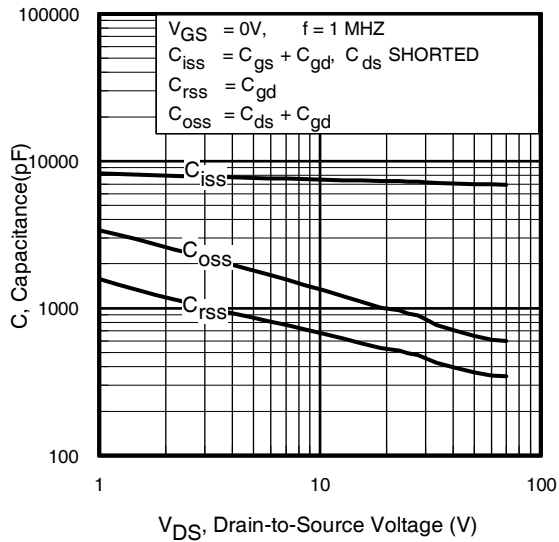
**Fig 2.** Typical Output Characteristics



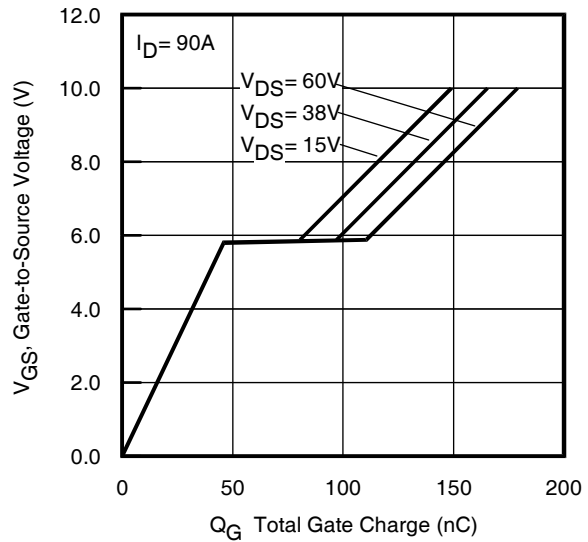
**Fig 3.** Typical Transfer Characteristics



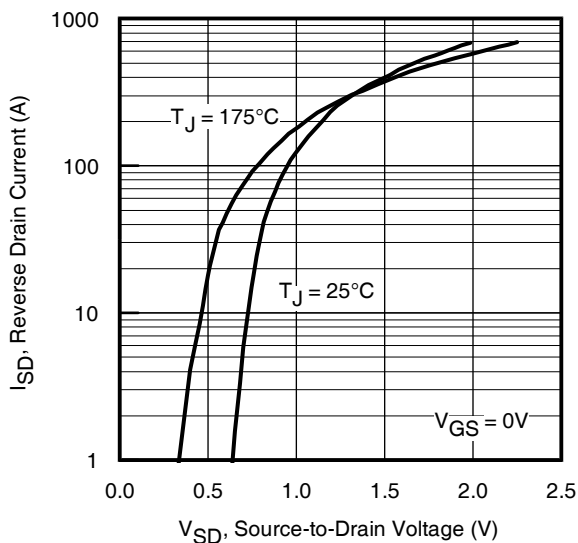
**Fig 4.** Typical Forward Transconductance vs. Drain Current



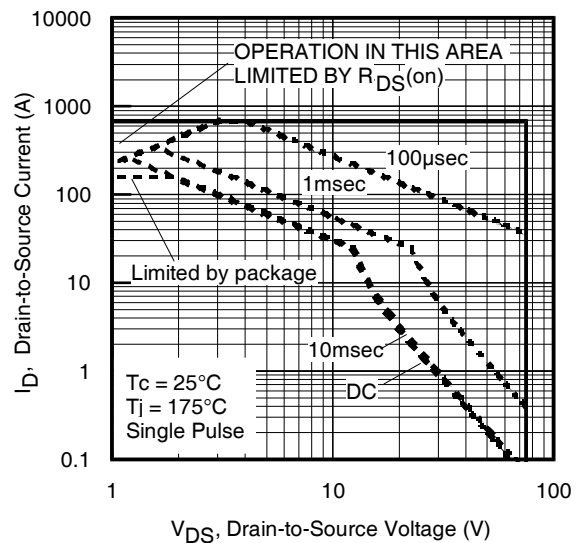
**Fig 5.** Typical Capacitance vs. Drain-to-Source Voltage



**Fig 6.** Typical Gate Charge vs. Gate-to-Source Voltage



**Fig 7.** Typical Source-Drain Diode Forward Voltage



**Fig 8.** Maximum Safe Operating Area

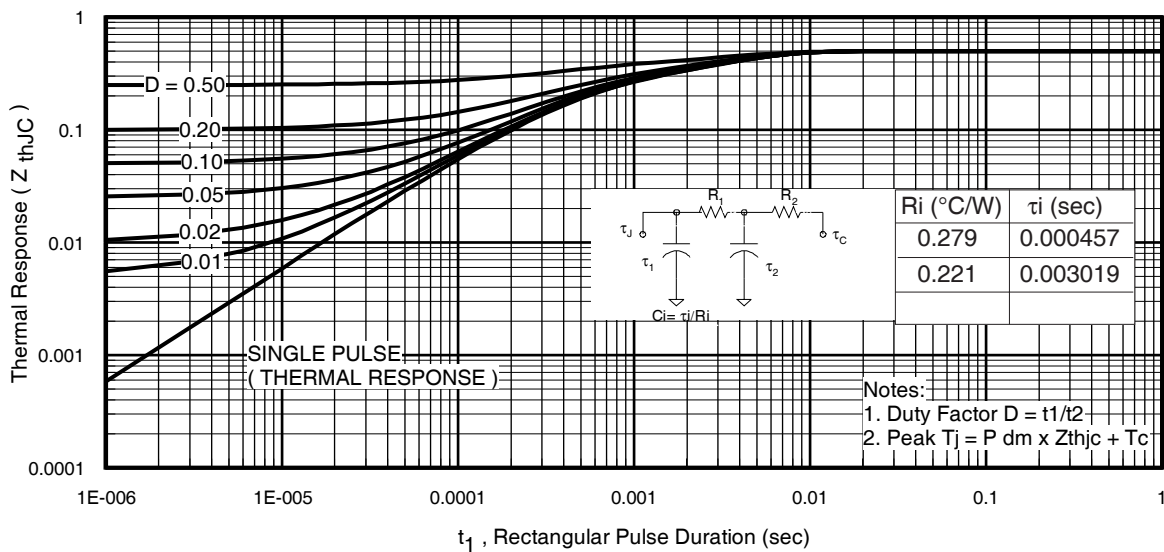
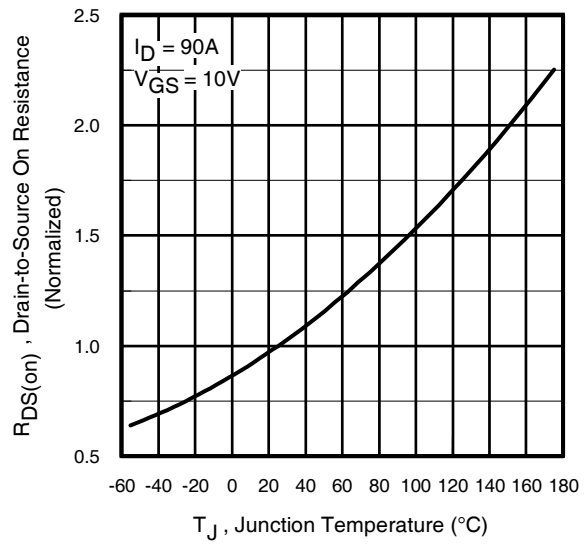
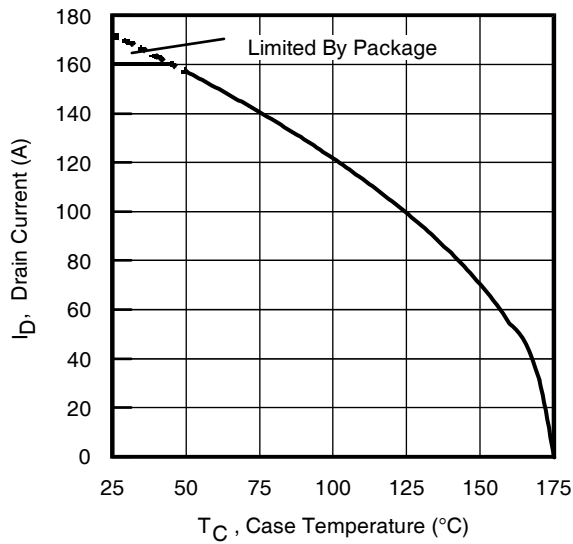
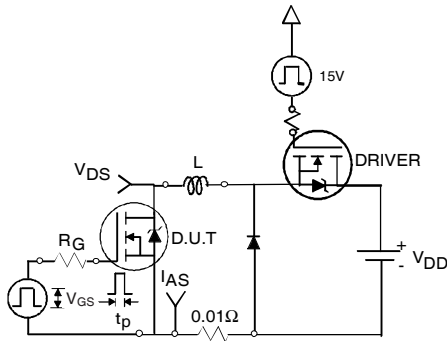
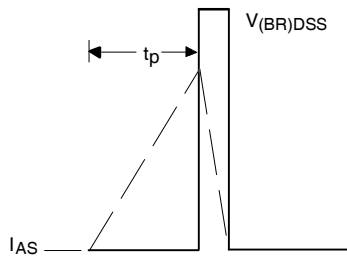


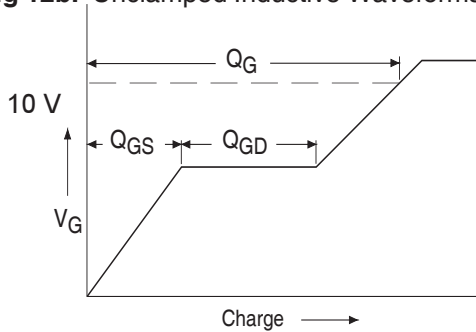
Fig 11. Maximum Effective Transient Thermal Impedance, Junction-to-Case



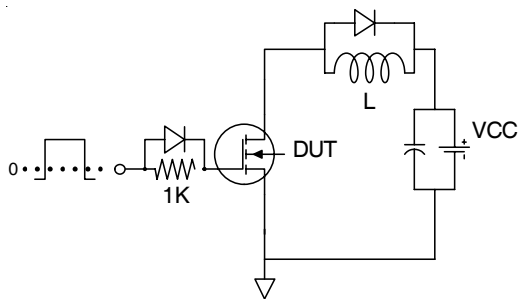
**Fig 12a.** Unclamped Inductive Test Circuit



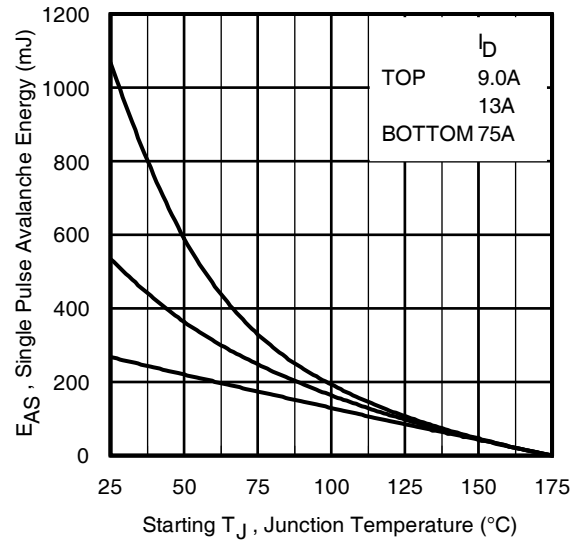
**Fig 12b.** Unclamped Inductive Waveforms



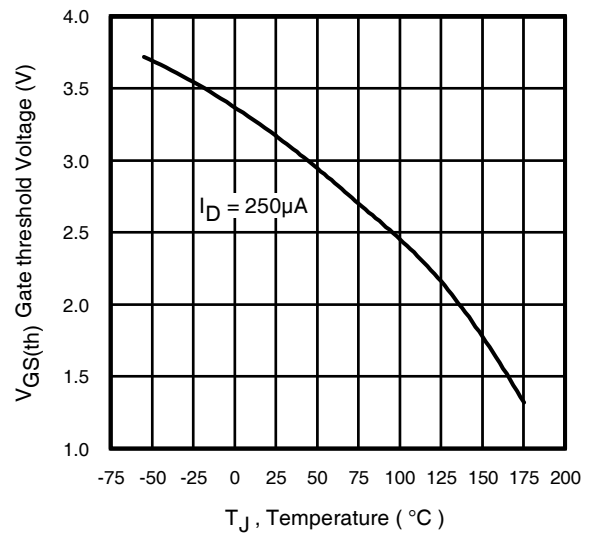
**Fig 13a.** Basic Gate Charge Waveform



**Fig 13b.** Gate Charge Test Circuit



**Fig 12c.** Maximum Avalanche Energy vs. Drain Current



**Fig 14.** Threshold Voltage vs. Temperature

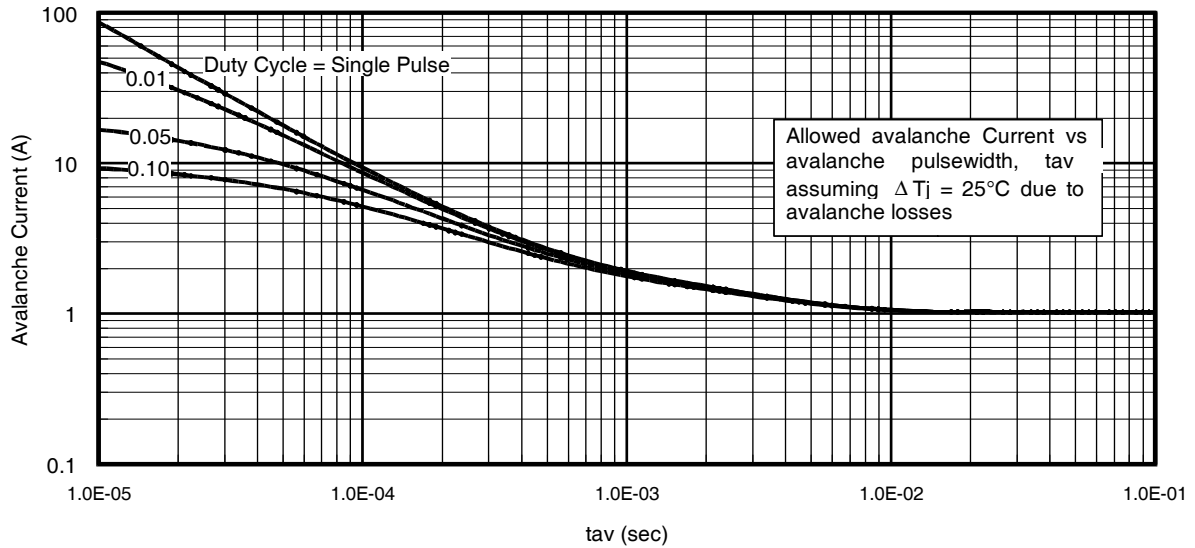


Fig 15. Typical Avalanche Current Vs. Pulsewidth

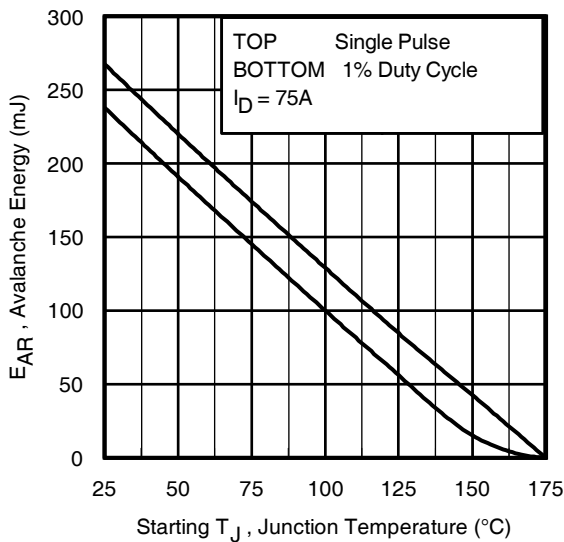


Fig 16. Maximum Avalanche Energy vs. Temperature

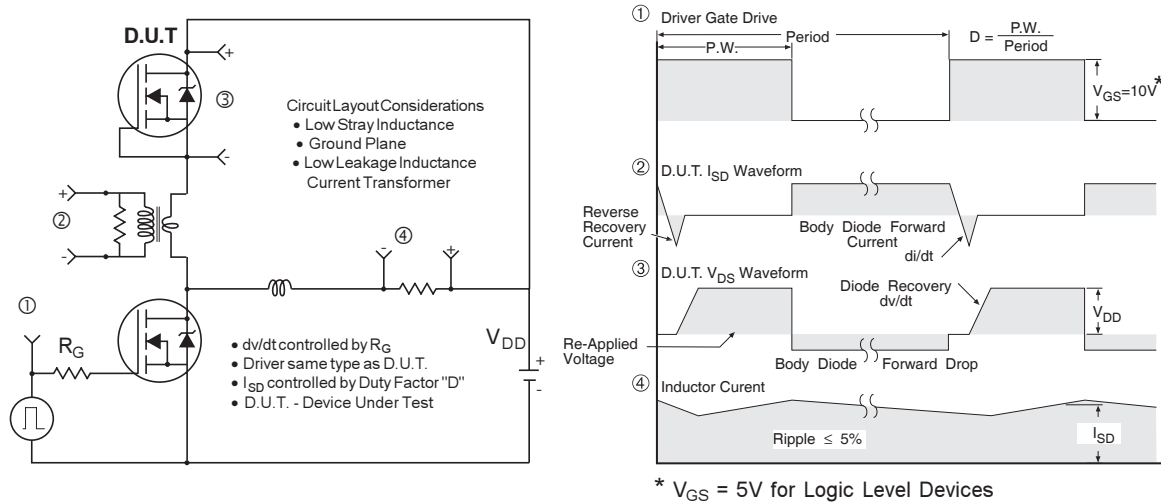
**Notes on Repetitive Avalanche Curves , Figures 15, 16:**  
(For further info, see AN-1005 at [www.irf.com](http://www.irf.com))

1. Avalanche failures assumption:  
Purely a thermal phenomenon and failure occurs at a temperature far in excess of  $T_{jmax}$ . This is validated for every part type.
2. Safe operation in Avalanche is allowed as long as  $T_{jmax}$  is not exceeded.
3. Equation below based on circuit and waveforms shown in Figures 12a, 12b.
4.  $P_{D(ave)}$  = Average power dissipation per single avalanche pulse.
5. BV = Rated breakdown voltage (1.3 factor accounts for voltage increase during avalanche).
6.  $I_{av}$  = Allowable avalanche current.
7.  $\Delta T$  = Allowable rise in junction temperature, not to exceed  $T_{jmax}$  (assumed as 25°C in Figure 15, 16).  
 $t_{av}$  = Average time in avalanche.  
 $D$  = Duty cycle in avalanche =  $t_{av} \cdot f$   
 $Z_{thJC}(D, t_{av})$  = Transient thermal resistance, see figure 11)

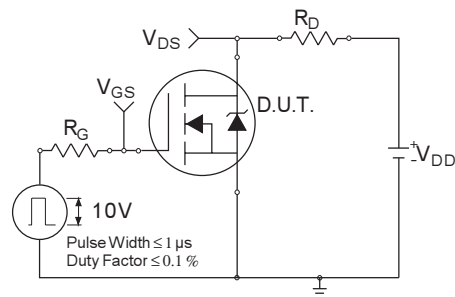
$$P_{D(ave)} = 1/2 (1.3 \cdot BV \cdot I_{av}) = \Delta T / Z_{thJC}$$

$$I_{av} = 2\Delta T / [1.3 \cdot BV \cdot Z_{th}]$$

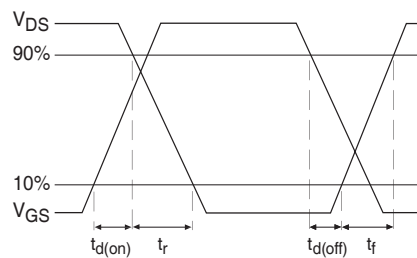
$$E_{AS(AR)} = P_{D(ave)} \cdot t_{av}$$



**Fig 17. Peak Diode Recovery  $dv/dt$  Test Circuit for N-Channel HEXFET® Power MOSFETs**



**Fig 18a. Switching Time Test Circuit**

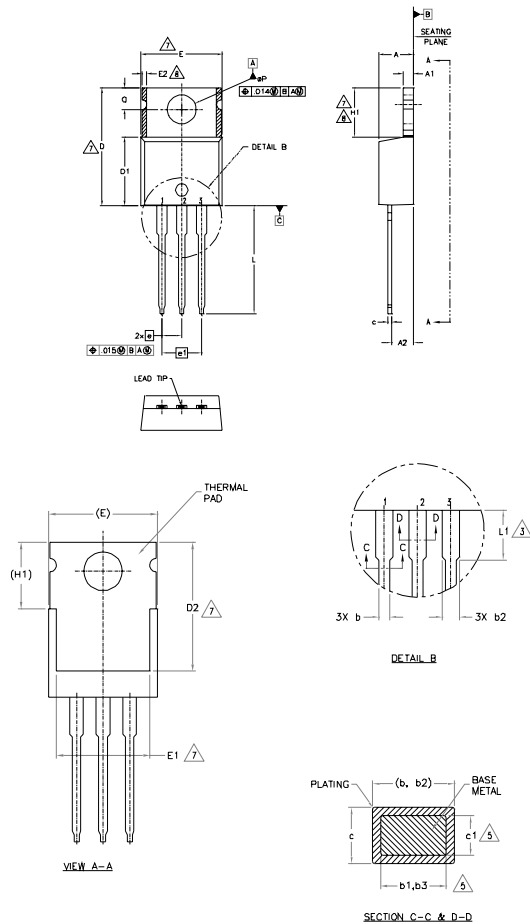


**Fig 18b. Switching Time Waveforms**



## TO-220AB Package Outline

Dimensions are shown in millimeters (inches)



### NOTES:

- 1.- DIMENSIONING AND TOLERANCING AS PER ASME Y14.5 M- 1994.
- 2.- DIMENSIONS ARE SHOWN IN INCHES [MILLIMETERS].
- 3.- LEAD DIMENSION AND FINISH UNCONTROLLED IN L1.
- 4.- DIMENSION D, D1 & E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED .005" (0.127) PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY.
- 5.- DIMENSION b1, b3 & c1 APPLY TO BASE METAL ONLY.
- 6.- CONTROLLING DIMENSION : INCHES.
- 7.- THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSIONS E,H1,D2 & E1
- 8.- DIMENSION E2 X H1 DEFINE A ZONE WHERE STAMPING AND SINGULATION IRREGULARITIES ARE ALLOWED.
- 9.- OUTLINE CONFORMS TO JEDEC TO-220, EXCEPT A2 (max.) AND D2 (min.) WHERE DIMENSIONS ARE DERIVED FROM THE ACTUAL PACKAGE OUTLINE.

| SYMBOL | DIMENSIONS  |       |          |      | NOTES |
|--------|-------------|-------|----------|------|-------|
|        | MILLIMETERS |       | INCHES   |      |       |
|        | MIN.        | MAX.  | MIN.     | MAX. |       |
| A      | 3.56        | 4.83  | .140     | .190 |       |
| A1     | 0.51        | 1.40  | .020     | .055 |       |
| A2     | 2.03        | 2.92  | .080     | .115 |       |
| b      | 0.38        | 1.01  | .015     | .040 |       |
| b1     | 0.38        | 0.97  | .015     | .038 | 5     |
| b2     | 1.14        | 1.78  | .045     | .070 |       |
| b3     | 1.14        | 1.73  | .045     | .068 | 5     |
| c      | 0.36        | 0.61  | .014     | .024 |       |
| c1     | 0.36        | 0.56  | .014     | .022 | 5     |
| D      | 14.22       | 16.51 | .560     | .650 | 4     |
| D1     | 8.38        | 9.02  | .330     | .355 |       |
| D2     | 11.68       | 12.88 | .460     | .507 | 7     |
| E      | 9.65        | 10.67 | .380     | .420 | 4,7   |
| E1     | 6.86        | 8.89  | .270     | .350 | 7     |
| E2     | -           | 0.76  | -        | .030 | 8     |
| e      | 2.54 BSC    |       | .100 BSC |      |       |
| e1     | 5.08 BSC    |       | .200 BSC |      |       |
| H1     | 5.84        | 6.86  | .230     | .270 | 7,8   |
| L      | 12.70       | 14.73 | .500     | .580 |       |
| L1     | 3.56        | 4.06  | .140     | .160 | 3     |
| øP     | 3.54        | 4.08  | .139     | .161 |       |
| Q      | 2.54        | 3.42  | .100     | .135 |       |

### LEAD ASSIGNMENTS

#### HEXMET

- 1.- GATE
- 2.- DRAIN
- 3.- SOURCE

#### IGBTs, COPACK

- 1.- GATE
- 2.- COLLECTOR
- 3.- EMITTER

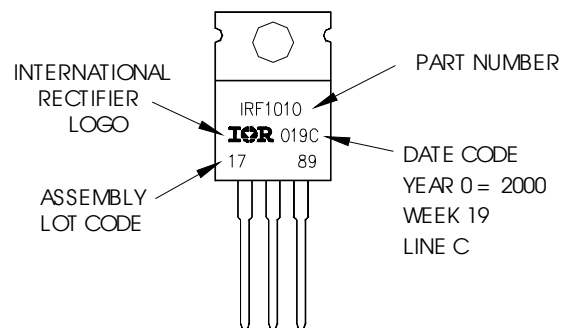
#### DIODES

- 1.- ANODE
- 2.- CATHODE
- 3.- ANODE

## TO-220AB Part Marking Information

EXAMPLE: THIS IS AN IRF1010  
LOT CODE 1789  
ASSEMBLED ON WW 19, 2000  
IN THE ASSEMBLY LINE "C"

Note: "P" in assembly line position  
indicates "Lead - Free"



TO-220AB packages are not recommended for Surface Mount Application.

### Notes:

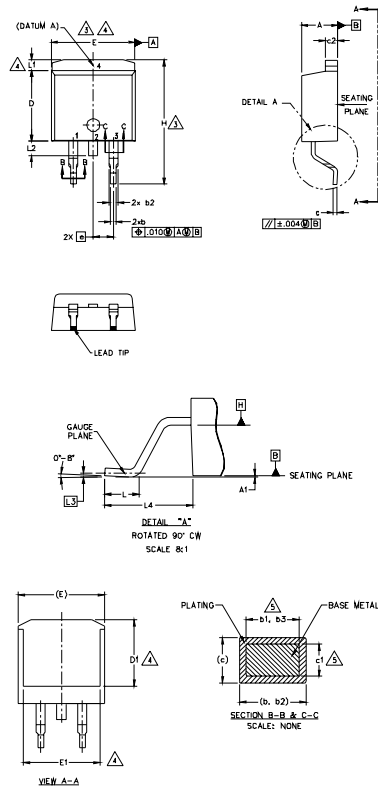
1. For an Automotive Qualified version of this part please see <http://www.irf.com/product-info/auto/>
  2. For the most current drawing please refer to IR website at <http://www.irf.com/package/>
- [www.irf.com](http://www.irf.com)

# IRF2907Z/S/LPbF

International  
**IR** Rectifier

## D<sup>2</sup>Pak (TO-263AB) Package Outline

Dimensions are shown in millimeters (inches)



| SYMBOL | DIMENSIONS  |       |          |      | NOTES |
|--------|-------------|-------|----------|------|-------|
|        | MILLIMETERS |       | INCHES   |      |       |
|        | MIN.        | MAX.  | MIN.     | MAX. |       |
| A      | 4.06        | 4.83  | .160     | .190 | 5     |
| A1     | 0.00        | 0.254 | .000     | .010 |       |
| b      | 0.51        | 0.99  | .020     | .039 |       |
| b1     | 0.51        | 0.89  | .020     | .035 |       |
| b2     | 1.14        | 1.78  | .045     | .070 |       |
| b3     | 1.14        | 1.73  | .045     | .068 | 5     |
| c      | 0.38        | 0.74  | .015     | .029 | 5     |
| c1     | 0.38        | 0.58  | .015     | .023 |       |
| c2     | 1.14        | 1.65  | .045     | .065 |       |
| D      | 8.38        | 9.65  | .330     | .380 | 3     |
| D1     | 6.86        | —     | .270     | —    | 4     |
| E      | 9.65        | 10.67 | .380     | .420 | 3,4   |
| E1     | 6.22        | —     | .245     | —    | 4     |
| e      | 2.54 BSC    |       | .100 BSC |      | 4     |
| H      | 14.61       | 15.88 | .575     | .625 |       |
| L      | 1.78        | 2.79  | .070     | .110 |       |
| L1     | —           | 1.65  | —        | .066 |       |
| L2     | —           | 1.78  | —        | .070 |       |
| L3     | 0.25 BSC    |       | .010 BSC |      | 4     |
| L4     | 4.78        | 5.28  | .188     | .208 |       |

### LEAD ASSIGNMENTS

#### DIODES

- 1.— ANODE (TWO DIE) / OPEN (ONE DIE)
- 2, 4.— CATHODE
- 3.— ANODE

#### HEXFET

- 1.— GATE
- 2, 4.— DRAIN
- 3.— SOURCE

#### IGBTs, CoPACK

- 1.— GATE
- 2, 4.— COLLECTOR
- 3.— EMITTER

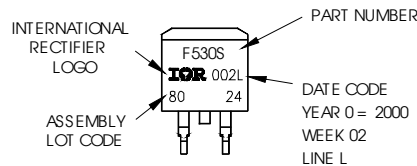
#### NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
2. DIMENSIONS ARE SHOWN IN MILLIMETERS [INCHES]
3. DIMENSION D & E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.127 [0.005"] PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTMOST EXTREMES OF THE PLASTIC BODY AT DATUM H.
4. THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSION E, L1, D1 & E1.
5. DIMENSION b1 AND c1 APPLY TO BASE METAL ONLY.
6. DATUM A & B TO BE DETERMINED AT DATUM PLANE H.
7. CONTROLLING DIMENSION: INCH.
8. OUTLINE CONFORMS TO JEDEC OUTLINE TO-263AB.

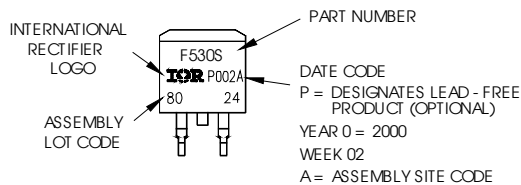
## D<sup>2</sup>Pak (TO-263AB) Part Marking Information

EXAMPLE: THIS IS AN IRF530S WITH  
LOT CODE 8024  
ASSEMBLED ON WW 02, 2000  
IN THE ASSEMBLY LINE "L"

Note: "P" in assembly line position  
indicates "Lead - Free"



OR

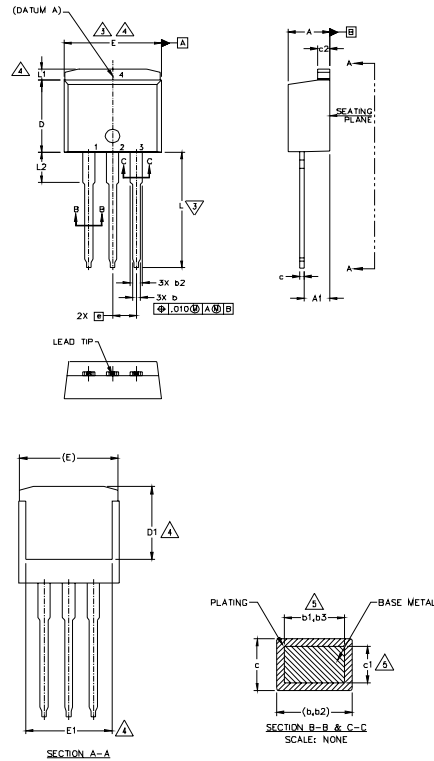


### Notes:

1. For an Automotive Qualified version of this part please see <http://www.irf.com/product-info/auto/>
2. For the most current drawing please refer to IR website at <http://www.irf.com/package/>

## TO-262 Package Outline

Dimensions are shown in millimeters (inches)



| SYMBOL | DIMENSIONS  |       |        |      | NOTES |
|--------|-------------|-------|--------|------|-------|
|        | MILLIMETERS |       | INCHES |      |       |
|        | MIN.        | MAX.  | MIN.   | MAX. |       |
| A      | 4.06        | 4.83  | .160   | .190 | 5     |
| A1     | 2.03        | 3.02  | .080   | .119 |       |
| b      | 0.51        | 0.99  | .020   | .039 |       |
| b1     | 0.51        | 0.89  | .020   | .035 |       |
| b2     | 1.14        | 1.78  | .045   | .070 | 5     |
| b3     | 1.14        | 1.73  | .045   | .068 |       |
| c      | 0.38        | 0.74  | .015   | .029 | 5     |
| c1     | 0.38        | 0.58  | .015   | .023 |       |
| c2     | 1.14        | 1.65  | .045   | .065 |       |
| D      | 8.38        | 9.65  | .330   | .380 | 3     |
| D1     | 6.86        | —     | .270   | —    | 4     |
| E      | 9.65        | 10.67 | .380   | .420 | 3,4   |
| E1     | 6.22        | —     | .245   | —    | 4     |
| e      | 2.54        | BSC   | .100   | BSC  | 4     |
| L      | 13.46       | 14.10 | .530   | .555 |       |
| L1     | —           | 1.65  | —      | .065 |       |
| L2     | 3.56        | 3.71  | .140   | .146 |       |

NOTES:  
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994  
2. DIMENSIONS ARE SHOWN IN MILLIMETERS (INCHES)  
3. DIMENSION D & E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.127 (0.005) PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTMOST EXTREMES OF THE PLASTIC BODY.  
4. DIMENSION D1 & E1 APPLY TO BASE METAL ONLY.  
5. DIMENSION D1 & E1 APPLY TO BASE METAL ONLY.  
6. CONTROLLING DIMENSION: INCH  
7. OUTLINE CONFORMS TO JEDEC TO-262 EXCEPT A1(max.), b1(max.) AND D1(max.) WHERE DIMENSIONS DERIVED THE ACTUAL PACKAGE OUTLINE.

LEAD ASSIGNMENTS  
GATE, CAPACITOR  
1 - GATE  
2 - COLLECTOR  
3 - EMITTER  
4 - COLLECTOR

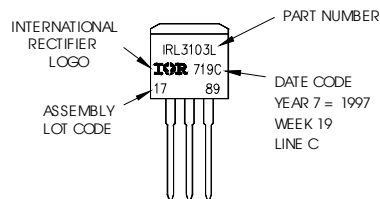
MARKET  
1 - GATE  
2 - SPAN  
3 - SOURCE  
4 - SPAN

DIGITS  
1 - ANODE (PIN 1) / OPEN (ONE DI)  
2 - CATHODE  
3 - ANODE

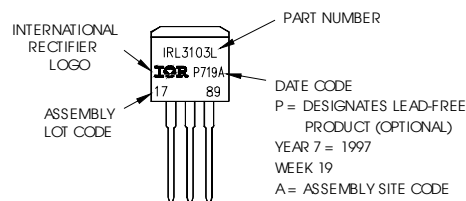
## TO-262 Part Marking Information

EXAMPLE: THIS IS AN IRL3103L  
LOT CODE 1789  
ASSEMBLED ON WW 19, 1997  
IN THE ASSEMBLY LINE "C"

Note: "P" in assembly line position indicates "Lead - Free"



OR



### Notes:

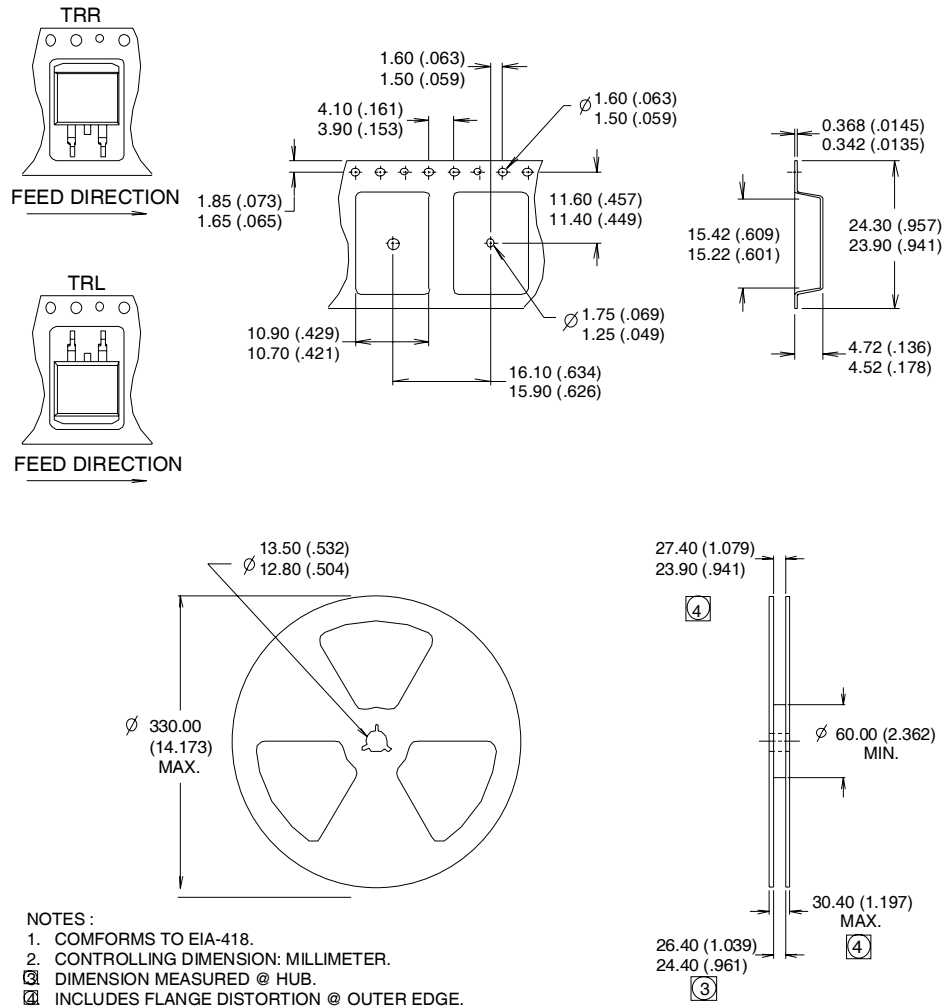
1. For an Automotive Qualified version of this part please see <http://www.irf.com/product-info/auto/>
2. For the most current drawing please refer to IR website at <http://www.irf.com/package/>

# IRF2907Z/S/LPbF

International  
**IR** Rectifier

## D<sup>2</sup>Pak Tape & Reel Information

Dimensions are shown in millimeters (inches)



Data and specifications subject to change without notice.  
This product has been designed and qualified for the Industrial market.  
Qualification Standards can be found on IR's Web site.

International  
**IR** Rectifier

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TAC Fax: (310) 252-7903

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