

# **AUTOMOTIVE GRADE**

# AUIRF3205Z AUIRF3205ZS

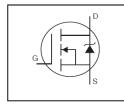
## **Features**

- Advanced Process Technology
- Ultra Low On-Resistance
- 175°C Operating Temperature
- Fast Switching
- Repetitive Avalanche Allowed up to Timax

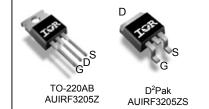
efficient and reliable device for use in Automotive applications and a wide

- Lead-Free, RoHS Compliant
- Automotive Qualified \*

variety of other applications.



| HEXFET Power MOSFE               |               |  |  |
|----------------------------------|---------------|--|--|
| V <sub>DSS</sub>                 | 55V           |  |  |
| R <sub>DS(on)</sub> max.         | 6.5m $\Omega$ |  |  |
| I <sub>D</sub> (Silicon Limited) | 110A          |  |  |
| I <sub>D</sub> (Package Limited) | 75A           |  |  |



| G    | D     | S      |
|------|-------|--------|
| Gate | Drain | Source |

# **Description** Specifically designed for Automotive applications, 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

| Dage nort number                | Dookogo Typo | Standard Pack      |          | Orderable Part Number |
|---------------------------------|--------------|--------------------|----------|-----------------------|
| Base part number                | Package Type | Form               | Quantity | Orderable Part Number |
| AUIRF3205Z                      | TO-220       | Tube               | 50       | AUIRF3205Z            |
| AUIRF3205ZS D <sup>2</sup> -Pak |              | Tube               | 50       | AUIRF3205ZS           |
| AUIRF3205ZS                     | D-Pak        | Tape and Reel Left | 800      | AUIRF3205ZSTRL        |

# **Absolute Maximum Ratings**

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only; and functional operation of the device at these or any other condition beyond those indicated in the specifications is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability. The thermal resistance and power dissipation ratings are measured under board mounted and still air conditions. Ambient temperature (TA) is 25°C, unless otherwise specified.

| Symbol                                  | Parameter   | Max.                    | Units |
|---|---|-------------------------|-------|
| I <sub>D</sub> @ T <sub>C</sub> = 25°C  | Continuous Drain Current, V <sub>GS</sub> @ 10V (Silicon Limited) | 110                     |       |
| I <sub>D</sub> @ T <sub>C</sub> = 100°C | Continuous Drain Current, V <sub>GS</sub> @ 10V (Silicon Limited) | 78                      | Ī ,   |
| I <sub>D</sub> @ T <sub>C</sub> = 25°C  | Continuous Drain Current, V <sub>GS</sub> @ 10V (Package Limited) | 75                      | A     |
| I <sub>DM</sub>                         | Pulsed Drain Current ①  | 440                     |       |
| P <sub>D</sub> @T <sub>C</sub> = 25°C   | Maximum Power Dissipation   | 170                     | W     |
|   | Linear Derating Factor  | 1.1                     | W/°C  |
| $V_{GS}$                                | Gate-to-Source Voltage  | ± 20                    | V     |
| E <sub>AS</sub>                         | Single Pulse Avalanche Energy (Thermally Limited) ②               | 180                     | ma I  |
| E <sub>AS</sub> (tested)                | Single Pulse Avalanche Energy Tested Value ®                      | 250                     | - mJ  |
| I <sub>AR</sub>                         | Avalanche Current ①   | See Fig.15,16, 12a, 12b | Α     |
| E <sub>AR</sub>                         | Repetitive Avalanche Energy ®                                     |                         | mJ    |
| TJ                                      | Operating Junction and  | -55 to + 175            |       |
| $T_{STG}$                               | Storage Temperature Range   |                         | °C    |
| ·                                       | Soldering Temperature, for 10 seconds (1.6mm from case)           | 300                     |       |
|   | Mounting torque, 6-32 or M3 screw⑦                                | 10 lbf•in (1.1N•m)      |       |

# Thermal Resistance

| Symbol          | Parameter  | Тур. | Max. | Units |
|-----------------|--|------|------|-------|
| $R_{	heta JC}$  | Junction-to-Case                                 |      | 0.90 |       |
| $R_{\theta CS}$ | Case-to-Sink, Flat, Greased Surface ⑦            | 0.50 |      | °C/W  |
| $R_{\theta JA}$ | Junction-to-Ambient ⑦                            |      | 62   | C/VV  |
| $R_{\theta JA}$ | Junction-to-Ambient ( PCB Mount, steady state) ® |      | 40   |       |

HEXFET® is a registered trademark of Infineon.

2015-11-13

<sup>\*</sup>Qualification standards can be found at www.infineon.com



# Static @ T<sub>J</sub> = 25°C (unless otherwise specified)

|                                   | Parameter                            |     | Тур.  | Max. | Units | Conditions  |
|-----------------------------------|--------------------------------------|-----|-------|------|-------|---|
| $V_{(BR)DSS}$                     | Drain-to-Source Breakdown Voltage    |     |       |      | V     | $V_{GS} = 0V, I_D = 250\mu A$                     |
| $\Delta V_{(BR)DSS}/\Delta T_{J}$ | Breakdown Voltage Temp. Coefficient  |     | 0.051 |      | V/°C  | Reference to 25°C, I <sub>D</sub> = 1mA           |
| R <sub>DS(on)</sub>               | Static Drain-to-Source On-Resistance |     | 4.9   | 6.5  | mΩ    | $V_{GS} = 10V, I_D = 66A$ ③                       |
| $V_{GS(th)}$                      | Gate Threshold Voltage               | 2.0 |       | 4.0  | V     | $V_{DS} = V_{GS}, I_{D} = 250 \mu A$              |
| gfs                               | Forward Trans conductance            | 71  |       |      | S     | $V_{DS} = 25V, I_{D} = 66A$                       |
| ı                                 | Drain to Source Leakage Current      |     |       | 20   |       | $V_{DS} = 55V, V_{GS} = 0V$                       |
| I <sub>DSS</sub>                  | Drain-to-Source Leakage Current      |     |       | 250  | μΑ    | $V_{DS} = 55V, V_{GS} = 0V, T_{J} = 125^{\circ}C$ |
| $I_{GSS}$                         | Gate-to-Source Forward Leakage       |     |       | 200  | n ^   | $V_{GS} = 20V$                                    |
|                                   | Gate-to-Source Reverse Leakage       |     |       | -200 | nA    | $V_{GS} = -20V$                                   |

# Dynamic Electrical Characteristics @ T<sub>J</sub> = 25°C (unless otherwise specified)

| $Q_g$            | Total Gate Charge            | <br>76   | 110 |    | I <sub>D</sub> = 66A                         |
|------------------|------------------------------|----------|-----|----|--|
| $Q_{gs}$         | Gate-to-Source Charge        | <br>21   |     | nC | $V_{DS} = 44V$                               |
| $Q_{gd}$         | Gate-to-Drain Charge         | <br>30   |     |    | V <sub>GS</sub> = 10V3                       |
| $t_{d(on)}$      | Turn-On Delay Time           | <br>18   |     |    | $V_{DD} = 28V$                               |
| t <sub>r</sub>   | Rise Time                    | <br>95   |     | 20 | $I_D = 66A$                                  |
| $t_{d(off)}$     | Turn-Off Delay Time          | <br>45   |     | ns | $R_G = 6.8\Omega$ ,                          |
| t <sub>f</sub>   | Fall Time                    | <br>67   |     |    | V <sub>GS</sub> = 10V ③                      |
| L <sub>D</sub>   | Internal Drain Inductance    | <br>4.5  |     | nH | Between lead,<br>6mm (0.25in.)               |
| L <sub>S</sub>   | Internal Source Inductance   | <br>7.5  |     |    | from package and center of die contact:      |
| C <sub>iss</sub> | Input Capacitance            | <br>3450 |     |    | $V_{GS} = 0V$                                |
| $C_{oss}$        | Output Capacitance           | <br>550  |     |    | $V_{DS} = 25V$                               |
| $C_{rss}$        | Reverse Transfer Capacitance | <br>310  |     | ~F | f = 1.0MHz                                   |
| Coss             | Output Capacitance           | <br>1940 |     | pF | $V_{GS} = 0V, V_{DS} = 1.0V f = 1.0MHz$      |
| Coss             | Output Capacitance           | <br>430  |     |    | $V_{GS} = 0V, V_{DS} = 44V f = 1.0MHz$       |
| Coss eff.        | Effective Output Capacitance | <br>640  |     |    | $V_{GS}$ = 0V, $V_{DS}$ = 0V to 44V $\oplus$ |

## **Diode Characteristics**

|                 | Parameter                              | Min.     | Тур.   | Max. | Units | Conditions   |
|-----------------|--|----------|--|------|-------|--|
| Is              | Continuous Source Current (Body Diode) |          |  | 75   |       | MOSFET symbol showing the                          |
| I <sub>SM</sub> | Pulsed Source Current (Body Diode) ①   |          |  | 440  | l l   | integral reverse p-n junction diode.               |
| $V_{SD}$        | Diode Forward Voltage                  |          |  | 1.3  | V     | $T_J = 25^{\circ}C, I_S = 66A, V_{GS} = 0V$ ③      |
| t <sub>rr</sub> | Reverse Recovery Time                  |          | 28   | 42   | ns    | $T_J = 25^{\circ}C$ , $I_F = 66A$ , $V_{DD} = 25V$ |
| $Q_{rr}$        | Reverse Recovery Charge                |          | 25   | 38   | nC    | di/dt = 100A/µs ③                                  |
| t <sub>on</sub> | Forward Turn-On Time                   | Intrinsi | Intrinsic turn-on time is negligible (turn-on is dominated by L <sub>S</sub> +L <sub>D</sub> ) |      |       |  |

## Notes:

- ① Repetitive rating; pulse width limited by max. junction temperature. (See fig.11)
- ② Limited by  $T_{Jmax}$  starting  $T_J = 25$ °C, L = 0.08mH,  $R_G = 25\Omega$ ,  $I_{AS} = 66$ A,  $V_{GS} = 10$ V. Part not recommended for use above this value.
- $ext{@}$   $ext{C}_{oss}$  eff. is a fixed capacitance that gives the same charging time as  $ext{C}_{oss}$  while  $ext{V}_{DS}$  is rising from 0 to 80%  $ext{V}_{DSS}$ .
- $\$  Limited by  $T_{Jmax}$ , see Fig.12a, 12b, 15, 16 for typical repetitive avalanche performance.
- $^{\circ}$  This value determined from sample failure population, starting  $T_J$  = 25°C, L = 0.08mH,  $R_G$  = 25Ω,  $I_{AS}$  = 66A,  $V_{GS}$  =10V.
- This is only applied to TO-220AB package.
- This is applied to D² 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



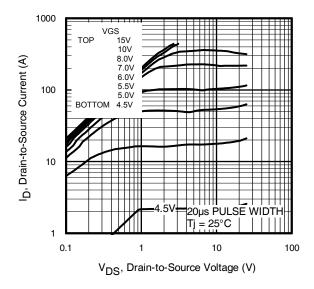


Fig. 1 Typical Output Characteristics

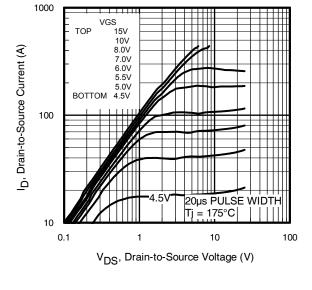


Fig. 2 Typical Output Characteristics

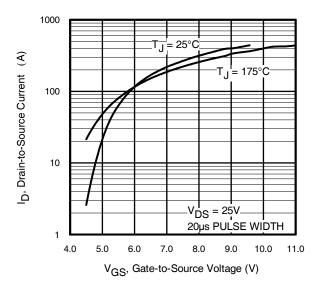


Fig. 3 Typical Transfer Characteristics

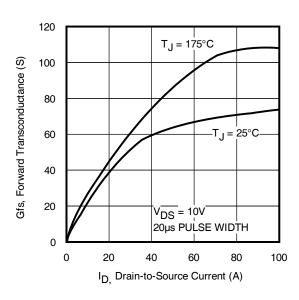


Fig. 4 Typical Forward Trans conductance vs. Drain Current



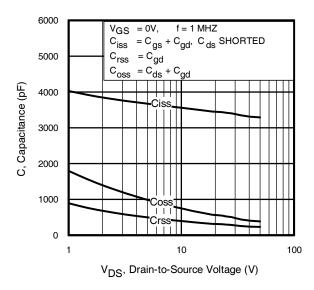


Fig 5. Typical Capacitance vs. Drain-to-Source Voltage

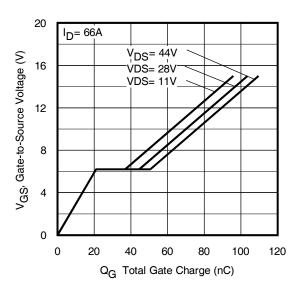
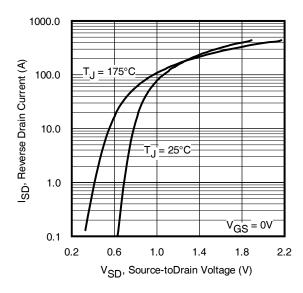


Fig 6. Typical Gate Charge vs. Gate-to-Source Voltage



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

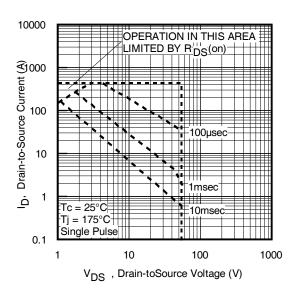
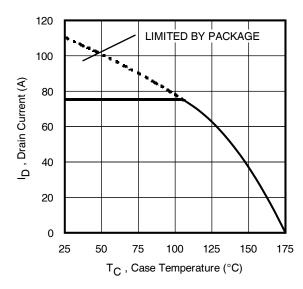
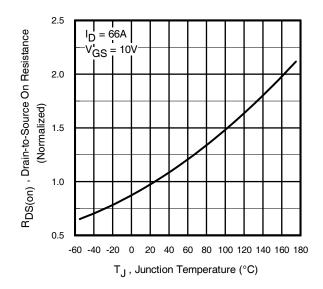


Fig 8. Maximum Safe Operating Area





**Fig 9.** Maximum Drain Current vs. Case Temperature



**Fig 10.** Normalized On-Resistance vs. Temperature

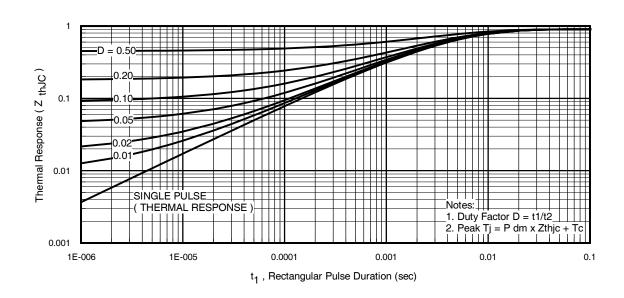


Fig 11. Maximum Effective Transient Thermal Impedance, Junction-to-Case



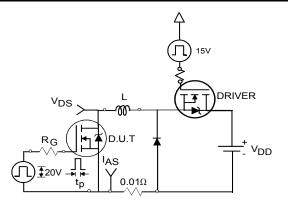


Fig 12a. Unclamped Inductive Test Circuit

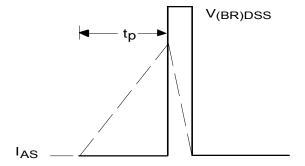


Fig 12b. Unclamped Inductive Waveforms

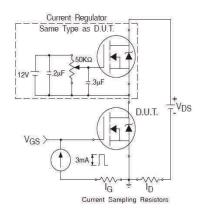


Fig 13a. Gate Charge Test Circuit

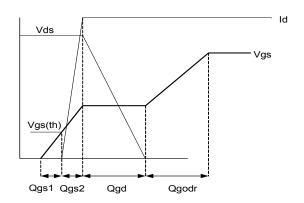


Fig 13b. Gate Charge Waveform

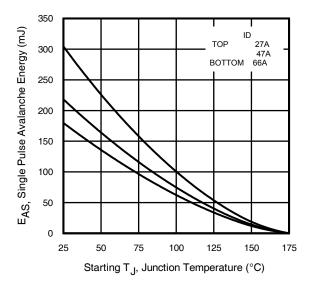


Fig 12c. Maximum Avalanche Energy vs. Drain Current

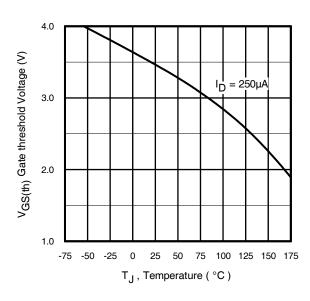


Fig 14. Threshold Voltage vs. Temperature



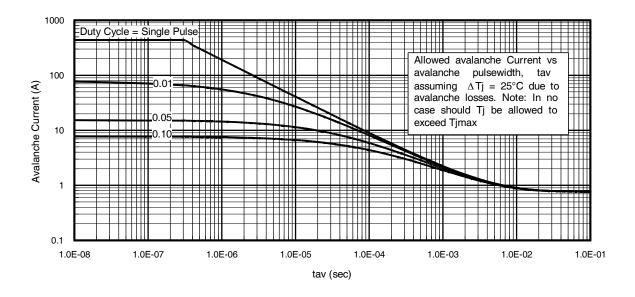
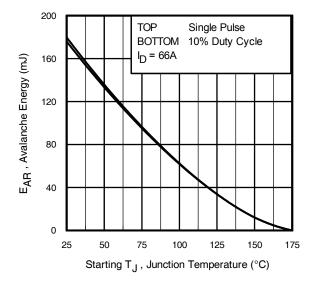


Fig 15. Avalanche Current vs. Pulse width



# Notes on Repetitive Avalanche Curves, Figures 15, 16: (For further info, see AN-1005 at www.infineon.com)

- Avalanche failures assumption:
   Purely a thermal phenomenon and failure occurs at a temperature far in excess of T<sub>jmax</sub>. This is validated for every part type.
- 2. Safe operation in Avalanche is allowed as long as Tjmax is not exceeded.
- 3. Equation below based on circuit and waveforms shown in Figures 12a, 12b.
- 4. PD (ave) = Average power dissipation per single avalanche pulse.
- BV = Rated breakdown voltage (1.3 factor accounts for voltage increase during avalanche).
- 6. lav = Allowable avalanche current.
- ΔT = Allowable rise in junction temperature, not to exceed T<sub>jmax</sub> (assumed as 25°C in Figure 14, 15).

tav = Average time in avalanche.

D = Duty cycle in avalanche =  $t_{av} \cdot f$ 

ZthJC(D, tav) = Transient thermal resistance, see Figures 13)

$$P_{D \text{ (ave)}} = 1/2 \text{ ( } 1.3 \cdot \text{BV} \cdot \text{I}_{av} \text{)} = \Delta \text{T} / \text{Z}_{thJC}$$
 
$$I_{av} = 2\Delta \text{T} / \text{ [ } 1.3 \cdot \text{BV} \cdot \text{Z}_{th} \text{]}$$
 
$$E_{AS \text{ (}AR)} = P_{D \text{ (ave)}} \cdot t_{av}$$

Fig 16. Maximum Avalanche Energy vs. Temperature



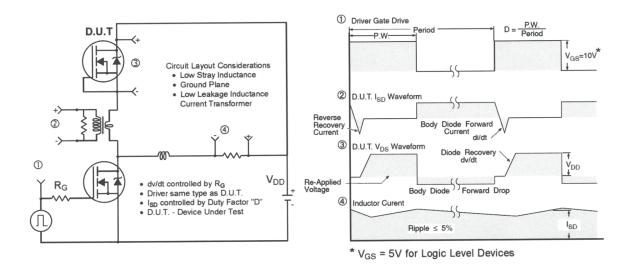


Fig 17. Peak Diode Recovery dv/dt Test Circuit for N-Channel HEXFET® Power MOSFETs

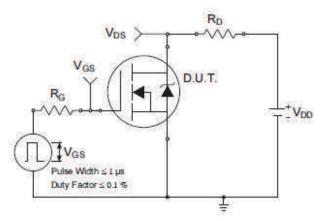


Fig 18a. Switching Time Test Circuit

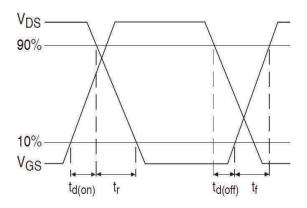
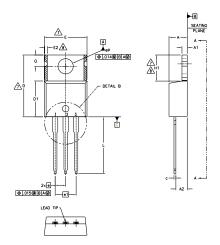
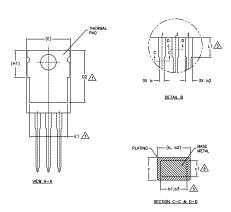


Fig 18b. Switching Time Waveforms



# TO-220AB Package Outline (Dimensions are shown in millimeters (inches))





### NOTES:

- DIMENSIONING AND TOLERANCING AS PER ASME Y14.5 M- 1994.
- DIMENSIONS ARE SHOWN IN INCHES [MILLIMETERS].
- LEAD DIMENSION AND FINISH UNCONTROLLED IN L1
- 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.
- DIMENSION 61, 63 & c1 APPLY TO BASE METAL ONLY.
- CONTROLLING DIMENSION: INCHES.
- THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSIONS E,H1,D2 & E1
- 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 (r | min.) |
|---|--|-------|
|   | WHERE DIMENSIONS ARE DERIVED FROM THE ACTUAL PACKAGE OUTLIN  | ŧΕ.   |

|        | DIMENSIONS  |       |      |      |       |  |
|--------|-------------|-------|------|------|-------|--|
| SYMBOL | MILLIMETERS |       | INC  | HES  |       |  |
|        | MIN.        | MAX.  | MIN. | MAX. | NOTES |  |
| Α      | 3.56        | 4.83  | .140 | .190 |       |  |
| A1     | 1,14        | 1.40  | .045 | .055 |       |  |
| A2     | 2.03        | 2.92  | .080 | .115 |       |  |
| b      | 0.38        | 1.01  | .015 | .040 |       |  |
| ь1     | 0.38        | 0.97  | .015 | .038 | 5     |  |
| b2     | 1,14        | 1.78  | .045 | .070 |       |  |
| b3     | 1,14        | 1.73  | .045 | .068 | 5     |  |
| С      | 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     |  |
| е      | 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     |  |
| ØΡ     | 3.54        | 4.08  | .139 | .161 |       |  |
| Q      | 2.54        | 3.42  | .100 | .135 |       |  |

### LEAD ASSIGNMENTS

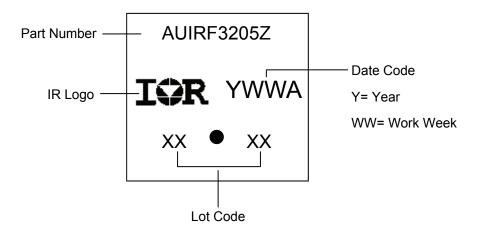
## HEXFET

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

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

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

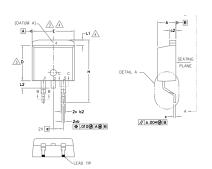
# **TO-220AB Part Marking Information**

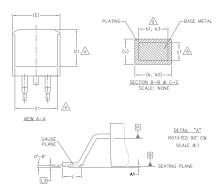


Note: For the most current drawing please refer to IR website at <a href="http://www.irf.com/package/">http://www.irf.com/package/</a>



# D<sup>2</sup>Pak (TO-263AB) Package Outline (Dimensions are shown in millimeters (inches))





- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
- 2. DIMENSIONS ARE SHOWN IN MILLIMETERS [INCHES].

AT THE OUTMOST EXTREMES OF THE PLASTIC BODY AT DATUM H.

4. THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSION E, L1, D1 & E1.

5. DIMENSION 61, 63 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.

| S      | DIMENSIONS |       |      |      |       |  |
|--------|------------|-------|------|------|-------|--|
| M<br>B | MILLIM     | ETERS | INC  | HES  | NOTES |  |
| O<br>L | MIN.       | MAX.  | MIN. | MAX. | S     |  |
| А      | 4.06       | 4.83  | .160 | .190 |       |  |
| A1     | 0.00       | 0.254 | .000 | .010 |       |  |
| Ь      | 0.51       | 0.99  | .020 | .039 |       |  |
| ь1     | 0.51       | 0.89  | .020 | .035 | 5     |  |
| b2     | 1.14       | 1.78  | .045 | .070 |       |  |
| ь3     | 1.14       | 1.73  | .045 | .068 | 5     |  |
| С      | 0.38       | 0.74  | .015 | .029 |       |  |
| с1     | 0.38       | 0.58  | .015 | .023 | 5     |  |
| 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     |  |
| е      | 2.54       | BSC   | .100 | BSC  |       |  |
| Н      | 14.61      | 15.88 | .575 | .625 |       |  |
| L      | 1.78       | 2.79  | .070 | .110 |       |  |
| L1     | _          | 1.68  | _    | .066 | 4     |  |
| L2     | _          | 1.78  | _    | .070 |       |  |
| L3     | 0.25       | BSC   | .010 | BSC  |       |  |

## LEAD ASSIGNMENTS

### DIODES

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

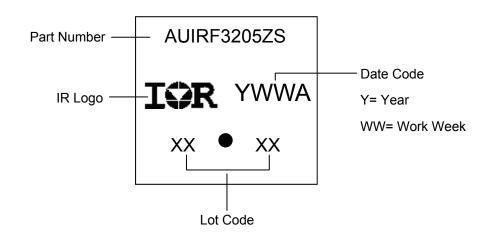
### HEXFET

IGBTs, CoPACK

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

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

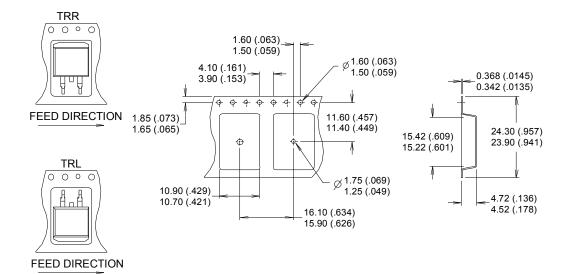
# D<sup>2</sup>Pak (TO-263AB) Part Marking Information

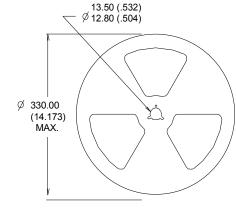


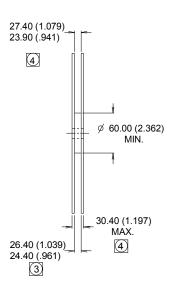
Note: For the most current drawing please refer to IR website at <a href="http://www.irf.com/package/">http://www.irf.com/package/</a>



# D<sup>2</sup>Pak (TO-263AB) Tape & Reel Information (Dimensions are shown in millimeters (inches))







NOTES:

- 1. COMFORMS TO EIA-418.
- 2. CONTROLLING DIMENSION: MILLIMETER.
- 🗷 DIMENSION MEASURED @ HUB.
- INCLUDES FLANGE DISTORTION @ OUTER EDGE.

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



## **Qualification Information**

| Qualification Level  |                            | Automotive<br>(per AEC-Q101)       |   |  |  |  |  |
|----------------------|----------------------------|------------------------------------|---|--|--|--|--|
|                      |                            | Comments: Th                       | Comments: This part number(s) passed Automotive qualification. Infineon's |  |  |  |  |
|                      |                            |                                    | consumer qualification level is granted by extension of the higher        |  |  |  |  |
|                      |                            | Automotive leve                    | el.   |  |  |  |  |
|                      |                            | TO-220 Pak                         | N/A   |  |  |  |  |
| Woisture             | Moisture Sensitivity Level |                                    | MSL1  |  |  |  |  |
|                      | NA calcina NA calci        | Class M4 (+/- 425V) <sup>†</sup>   |   |  |  |  |  |
|                      | Machine Model              | AEC-Q101-002                       |   |  |  |  |  |
| FOD                  | Llumana Dadu Madal         | Class H1C (+/- 2000V) <sup>†</sup> |   |  |  |  |  |
| ESD                  | Human Body Model           | AEC-Q101-001                       |   |  |  |  |  |
|                      | Charged Davise Medal       | Class C5 (+/- 1125V) <sup>†</sup>  |   |  |  |  |  |
| Charged Device Model |                            | AEC-Q101-005                       |   |  |  |  |  |
| RoHS Co              | mpliant                    |                                    | Yes   |  |  |  |  |
|                      |                            |                                    |   |  |  |  |  |

<sup>†</sup> Highest passing voltage.

# **Revision History**

| Date       | Comments                                  |
|------------|---|
| 11/13/2015 | Updated datasheet with corporate template |
|            | Corrected ordering table on page 1.       |

Published by Infineon Technologies AG 81726 München, Germany © Infineon Technologies AG 2015 All Rights Reserved.

## **IMPORTANT NOTICE**

The information given in this document shall in <u>no event</u> be regarded as a guarantee of conditions or characteristics ("Beschaffenheitsgarantie"). With respect to any examples, hints or any typical values stated herein and/or any information regarding the application of the product, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

In addition, any information given in this document is subject to customer's compliance with its obligations stated in this document and any applicable legal requirements, norms and standards concerning customer's products and any use of the product of Infineon Technologies in customer's applications.

The data contained in this document is exclusively intended for technically trained staff. It is the responsibility of customer's technical departments to evaluate the suitability of the product for the intended application and the completeness of the product information given in this document with respect to such application.

For further information on the product, technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies office (<a href="https://www.infineon.com">www.infineon.com</a>).

## **WARNINGS**

Due to technical requirements products may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by Infineon Technologies in a written document signed by authorized representatives of Infineon Technologies, Infineon Technologies' products may <u>not</u> be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury.

单击下面可查看定价,库存,交付和生命周期等信息

>>Infineon Technologies(英飞凌)