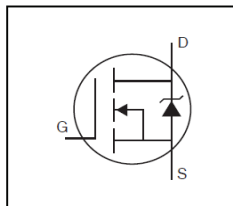


## Features

- Advanced Process Technology
- Ultra Low On-Resistance
- 175°C Operating Temperature
- Fast Switching
- Repetitive Avalanche Allowed up to  $T_{jmax}$
- Lead-Free, RoHS Compliant
- Automotive Qualified \*

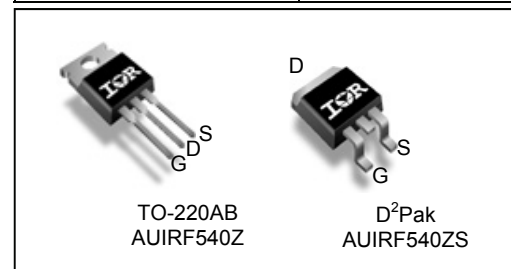


## HEXFET® Power MOSFET

|                          |               |
|--------------------------|---------------|
| $V_{DS}$                 | <b>100V</b>   |
| $R_{DS(on)}$ <b>typ.</b> | <b>21mΩ</b>   |
| <b>max.</b>              | <b>26.5mΩ</b> |
| $I_D$                    | <b>36A</b>    |

## 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 efficient and reliable device for use in Automotive applications and wide variety of other applications.



|          |          |          |
|----------|----------|----------|
| <b>G</b> | <b>D</b> | <b>S</b> |
| Gate     | Drain    | Source   |

| Base part number | Package Type | Standard Pack      |          | Orderable Part Number |
|------------------|--------------|--------------------|----------|-----------------------|
|                  |              | Form               | Quantity |                       |
| AUIRF540Z        | TO-220       | Tube               | 50       | AUIRF540Z             |
| AUIRF540ZS       | D²-Pak       | Tube               | 50       | AUIRF540ZS            |
|                  |              | Tape and Reel Left | 800      | AUIRF540ZSTRL         |

## 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 ( $T_A$ ) is 25°C, unless otherwise specified.

| Symbol                          | Parameter                                                         | Max.                    | Units |
|---------------------------------|-------------------------------------------------------------------|-------------------------|-------|
| $I_D @ T_C = 25^\circ\text{C}$  | Continuous Drain Current, $V_{GS} @ 10\text{V}$ (Silicon Limited) | 36                      | A     |
| $I_D @ T_C = 100^\circ\text{C}$ | Continuous Drain Current, $V_{GS} @ 10\text{V}$ (Silicon Limited) | 25                      |       |
| $I_{DM}$                        | Pulsed Drain Current ①                                            | 140                     |       |
| $P_D @ T_C = 25^\circ\text{C}$  | Maximum Power Dissipation                                         | 92                      | W     |
|                                 | Linear Derating Factor                                            | 0.61                    | W/°C  |
| $V_{GS}$                        | Gate-to-Source Voltage                                            | $\pm 20$                | V     |
| $E_{AS}$                        | Single Pulse Avalanche Energy (Thermally Limited) ②               | 83                      | mJ    |
| $E_{AS}(\text{tested})$         | Single Pulse Avalanche Energy Tested Value ⑥                      | 120                     |       |
| $I_{AR}$                        | Avalanche Current ①                                               | See Fig.15,16, 12a, 12b | A     |
| $E_{AR}$                        | Repetitive Avalanche Energy ①                                     |                         | mJ    |
| $T_J$                           | Operating Junction and                                            | -55 to + 175            | °C    |
| $T_{STG}$                       | Storage Temperature Range                                         |                         |       |
|                                 | Soldering Temperature, for 10 seconds (1.6mm from case)           | 300                     |       |
|                                 | Mounting torque, 6-32 or M3 screw ⑦                               | 10 lbf•in (1.1N•m)      |       |

## Thermal Resistance

| Symbol          | Parameter                                        | Typ. | Max. | Units |
|-----------------|--------------------------------------------------|------|------|-------|
| $R_{\theta JC}$ | Junction-to-Case                                 | —    | 1.64 | °C/W  |
| $R_{\theta CS}$ | Case-to-Sink, Flat, Greased Surface ⑦            | 0.50 | —    |       |
| $R_{\theta JA}$ | Junction-to-Ambient ⑦                            | —    | 62   |       |
| $R_{\theta JA}$ | Junction-to-Ambient ( PCB Mount, steady state) ⑧ | —    | 40   |       |

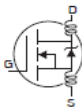
HEXFET® is a registered trademark of Infineon.

\*Qualification standards can be found at [www.infineon.com](http://www.infineon.com)

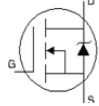
**Static @  $T_J = 25^\circ\text{C}$  (unless otherwise specified)**

|                                 | Parameter                            | Min. | Typ.  | Max. | Units               | Conditions                                            |
|---------------------------------|--------------------------------------|------|-------|------|---------------------|-------------------------------------------------------|
| $V_{(BR)DSS}$                   | Drain-to-Source Breakdown Voltage    | 100  | —     | —    | V                   | $V_{GS} = 0V, I_D = 250\mu A$                         |
| $\Delta V_{(BR)DSS}/\Delta T_J$ | Breakdown Voltage Temp. Coefficient  | —    | 0.093 | —    | V/ $^\circ\text{C}$ | Reference to $25^\circ\text{C}$ , $I_D = 1\text{mA}$  |
| $R_{DS(on)}$                    | Static Drain-to-Source On-Resistance | —    | 21    | 26.5 | m $\Omega$          | $V_{GS} = 10V, I_D = 22A$ ③                           |
| $V_{GS(th)}$                    | Gate Threshold Voltage               | 2.0  | —     | 4.0  | V                   | $V_{DS} = V_{GS}, I_D = 250\mu A$                     |
| $g_{fs}$                        | Forward Trans conductance            | 36   | —     | —    | S                   | $V_{DS} = 25V, I_D = 22A$                             |
| $I_{DSS}$                       | Drain-to-Source Leakage Current      | —    | —     | 20   | $\mu A$             | $V_{DS} = 100V, V_{GS} = 0V$                          |
|                                 |                                      | —    | —     | 250  |                     | $V_{DS} = 100V, V_{GS} = 0V, T_J = 125^\circ\text{C}$ |
| $I_{GSS}$                       | Gate-to-Source Forward Leakage       | —    | —     | 200  | nA                  | $V_{GS} = 20V$                                        |
|                                 | Gate-to-Source Reverse Leakage       | —    | —     | -200 |                     | $V_{GS} = -20V$                                       |

**Dynamic Electrical Characteristics @  $T_J = 25^\circ\text{C}$  (unless otherwise specified)**

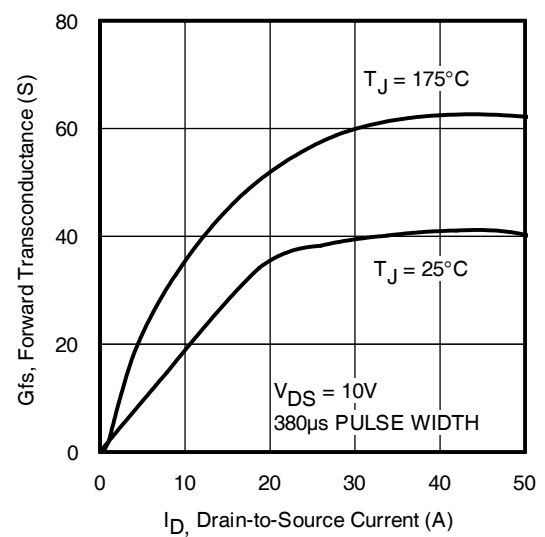
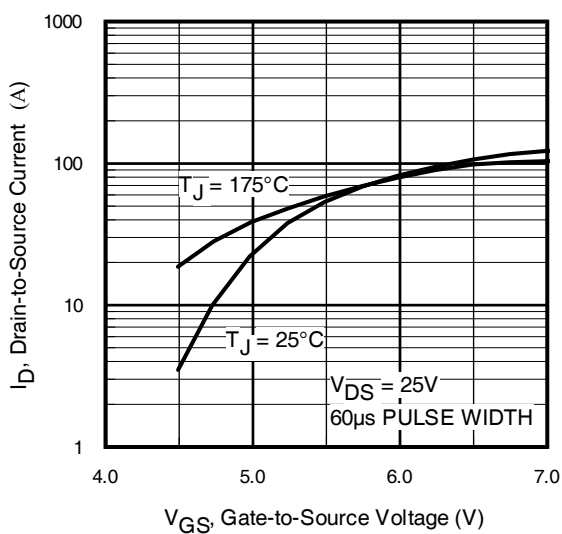
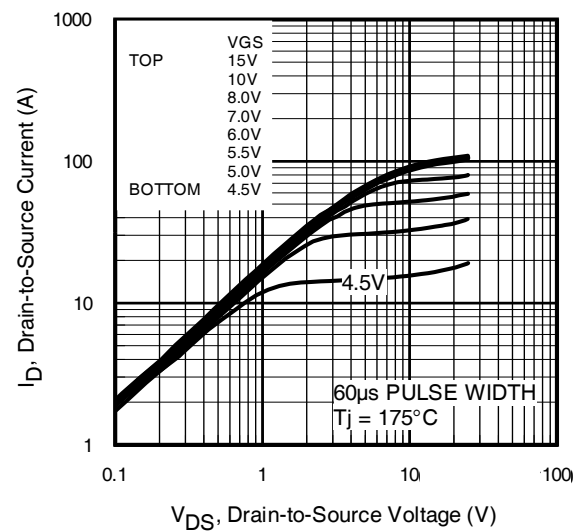
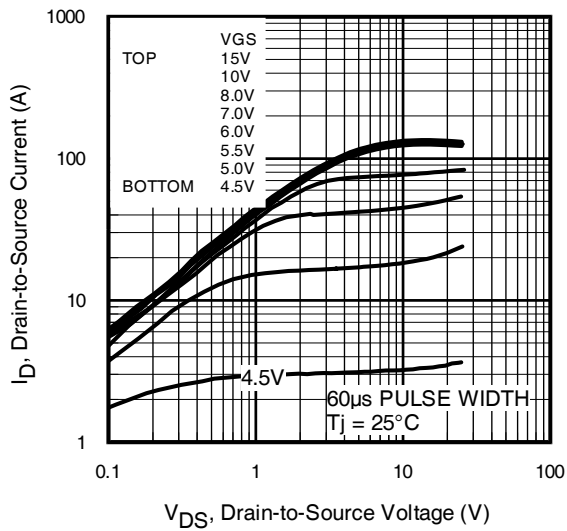
|                       |                              |   |      |    |    |                                                                                                                                                          |
|-----------------------|------------------------------|---|------|----|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| $Q_g$                 | Total Gate Charge            | — | 42   | 63 | nC | $I_D = 22A$                                                                                                                                              |
| $Q_{gs}$              | Gate-to-Source Charge        | — | 9.7  | —  |    | $V_{DS} = 80V$                                                                                                                                           |
| $Q_{gd}$              | Gate-to-Drain Charge         | — | 15   | —  |    | $V_{GS} = 10V$ ③                                                                                                                                         |
| $t_{d(on)}$           | Turn-On Delay Time           | — | 15   | —  | ns | $V_{DD} = 50V$                                                                                                                                           |
| $t_r$                 | Rise Time                    | — | 51   | —  |    | $I_D = 22A$                                                                                                                                              |
| $t_{d(off)}$          | Turn-Off Delay Time          | — | 43   | —  |    | $R_G = 12\Omega$                                                                                                                                         |
| $t_f$                 | Fall Time                    | — | 39   | —  |    | $V_{GS} = 10V$ ③                                                                                                                                         |
| $L_D$                 | Internal Drain Inductance    | — | 4.5  | —  | nH | Between lead, 6mm (0.25in.) from package and center of die contact :  |
| $L_S$                 | Internal Source Inductance   | — | 7.5  | —  |    |                                                                                                                                                          |
| $C_{iss}$             | Input Capacitance            | — | 1770 | —  | pF | $V_{GS} = 0V$                                                                                                                                            |
| $C_{oss}$             | Output Capacitance           | — | 180  | —  |    | $V_{DS} = 25V$                                                                                                                                           |
| $C_{rss}$             | Reverse Transfer Capacitance | — | 100  | —  |    | $f = 1.0\text{MHz}$ , See Fig. 5                                                                                                                         |
| $C_{oss}$             | Output Capacitance           | — | 730  | —  |    | $V_{GS} = 0V, V_{DS} = 1.0V, f = 1.0\text{MHz}$                                                                                                          |
| $C_{oss}$             | Output Capacitance           | — | 110  | —  |    | $V_{GS} = 0V, V_{DS} = 80V, f = 1.0\text{MHz}$                                                                                                           |
| $C_{oss\text{ eff.}}$ | Effective Output Capacitance | — | 170  | —  |    | $V_{GS} = 0V, V_{DS} = 0V \text{ to } 80V$ ④                                                                                                             |

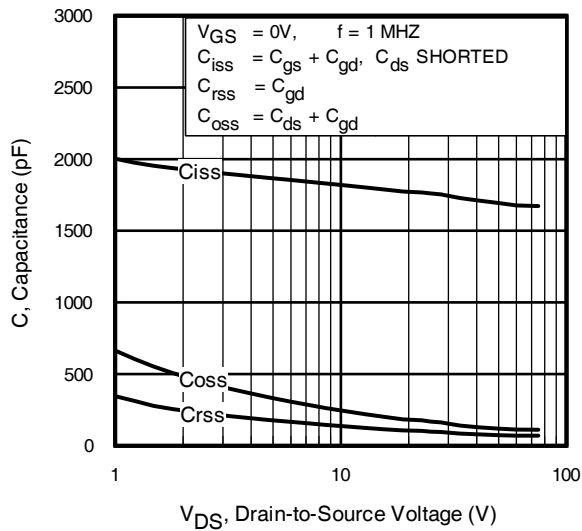
**Diode Characteristics**

|          | Parameter                              | Min.                                                                        | Typ. | Max. | Units | Conditions                                                                                                                                           |
|----------|----------------------------------------|-----------------------------------------------------------------------------|------|------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| $I_S$    | Continuous Source Current (Body Diode) | —                                                                           | —    | 36   | A     | MOSFET symbol showing the integral reverse p-n junction diode.  |
| $I_{SM}$ | Pulsed Source Current (Body Diode) ①   | —                                                                           | —    | 140  |       |                                                                                                                                                      |
| $V_{SD}$ | Diode Forward Voltage                  | —                                                                           | —    | 1.3  | V     | $T_J = 25^\circ\text{C}, I_S = 22A, V_{GS} = 0V$ ③                                                                                                   |
| $t_{rr}$ | Reverse Recovery Time                  | —                                                                           | 33   | 50   | ns    | $T_J = 25^\circ\text{C}, I_F = 22A, V_{DD} = 50V$                                                                                                    |
| $Q_{rr}$ | Reverse Recovery Charge                | —                                                                           | 41   | 62   | nC    | $di/dt = 100A/\mu s$ ③                                                                                                                               |
| $t_{on}$ | Forward Turn-On Time                   | Intrinsic turn-on time is negligible (turn-on is dominated by $L_S + L_D$ ) |      |      |       |                                                                                                                                                      |

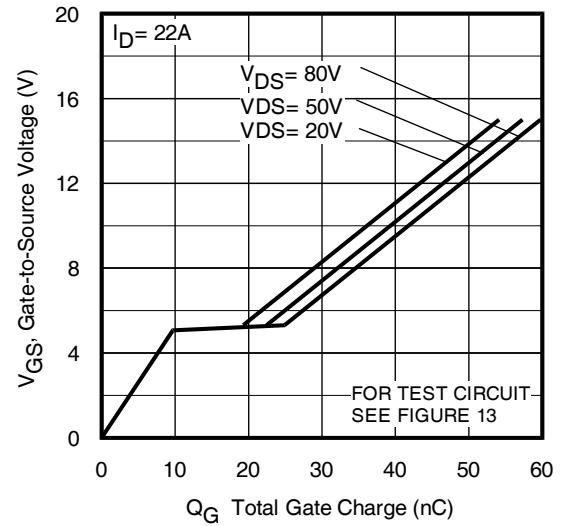
**Notes:**

- ① Repetitive rating; pulse width limited by max. junction temperature. (See fig. 11)
- ② Limited by  $T_{Jmax}$ , starting  $T_J = 25^\circ\text{C}$ ,  $L = 0.46\text{mH}$ ,  $R_G = 25\Omega$ ,  $I_{AS} = 20A$ ,  $V_{GS} = 10V$ . Part not recommended for use above this value.
- ③ Pulse width  $\leq 1.0\text{ms}$ ; duty cycle  $\leq 2\%$ .
- ④  $C_{oss\text{ eff.}}$  is a fixed capacitance that gives the same charging time as  $C_{oss}$  while  $V_{DS}$  is rising from 0 to 80%  $V_{DSS}$ .
- ⑤ Limited by  $T_{Jmax}$ , see Fig.12a, 12b, 15, 16 for typical repetitive avalanche performance.
- ⑥ This value determined from sample failure population,  $T_J = 25^\circ\text{C}$ ,  $L = 0.46\text{mH}$ ,  $R_G = 25\Omega$ ,  $I_{AS} = 20A$ ,  $V_{GS} = 10V$ .
- ⑦ This is only applied to TO-220AB package.
- 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

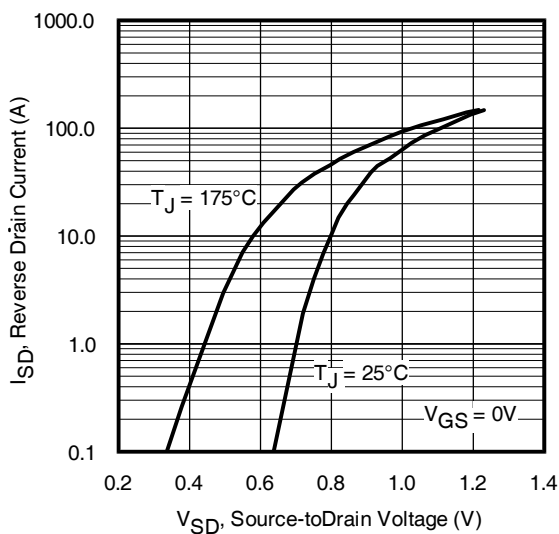




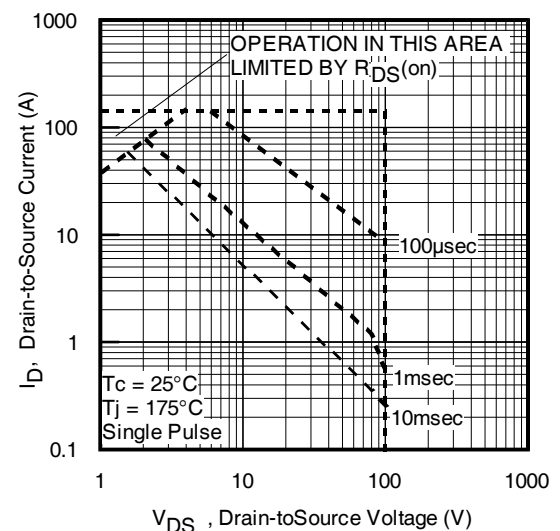
**Fig 5.** Typical Capacitance vs.  
Drain-to-Source Voltage



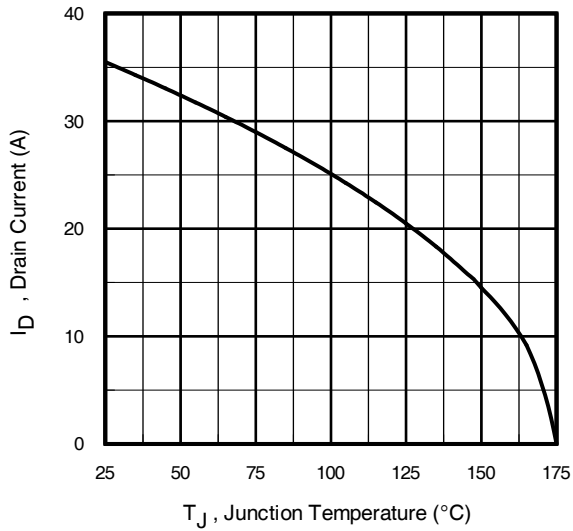
**Fig 6.** Typical Gate Charge vs.  
Gate-to-Source Voltage



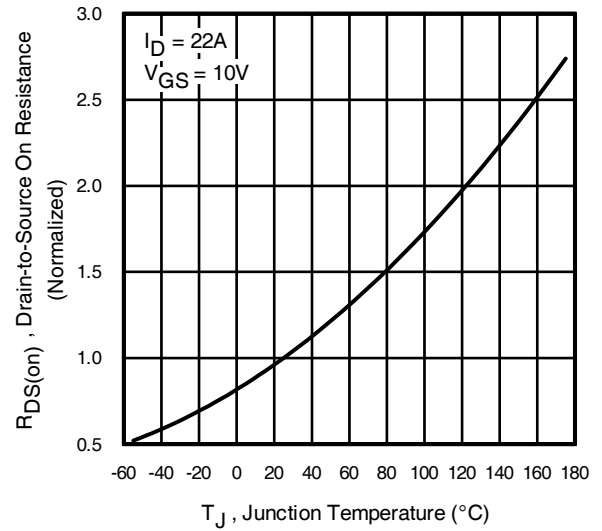
**Fig. 7** Typical Source-to-Drain Diode  
Forward Voltage



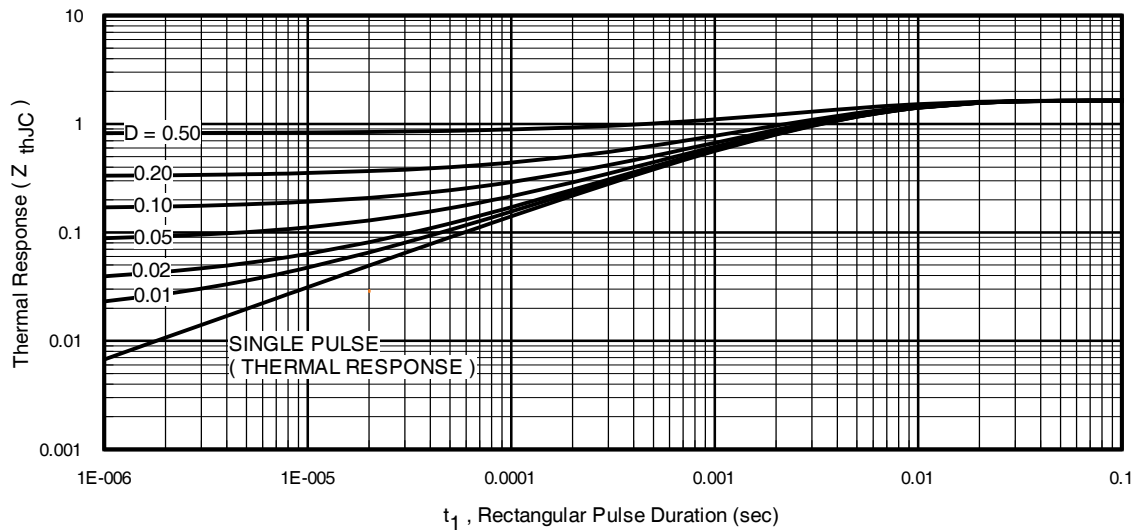
**Fig 8.** Maximum Safe Operating Area



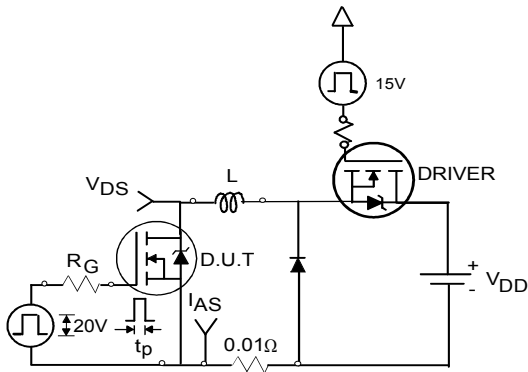
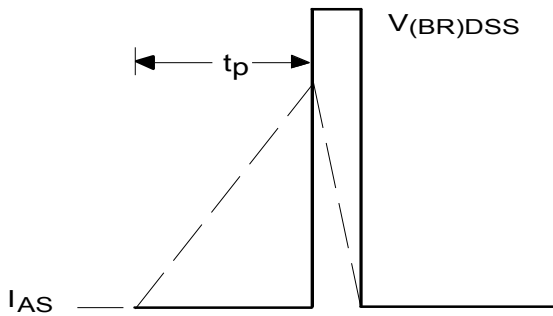
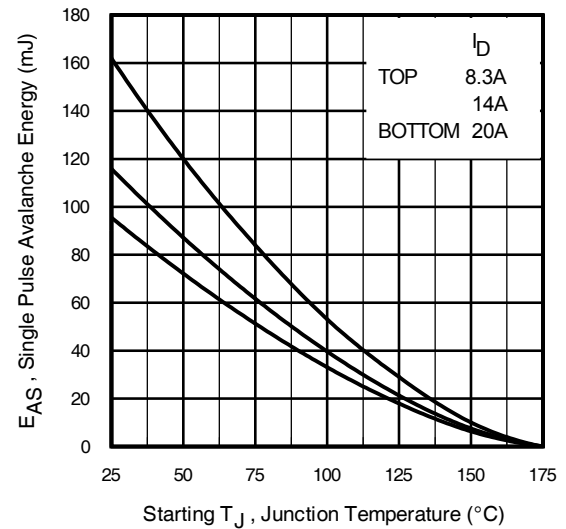
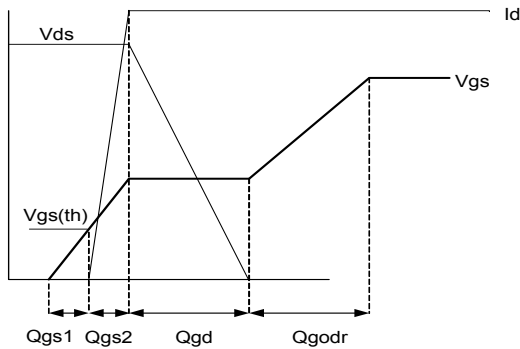
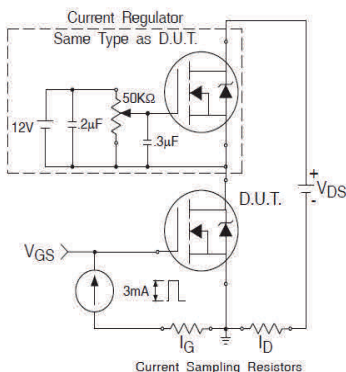
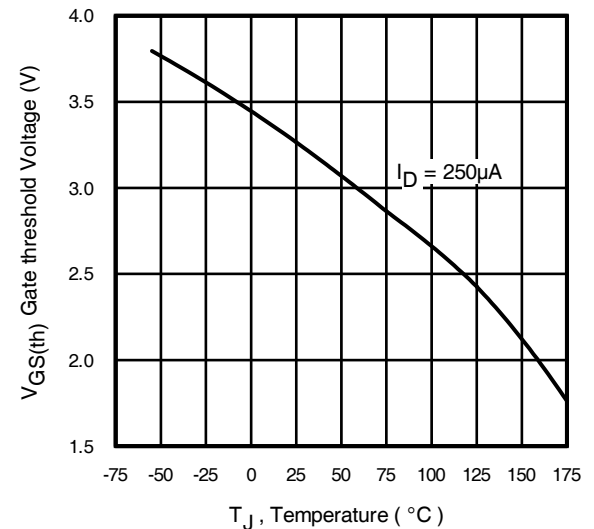
**Fig 9.** Maximum Drain Current vs. Case Temperature

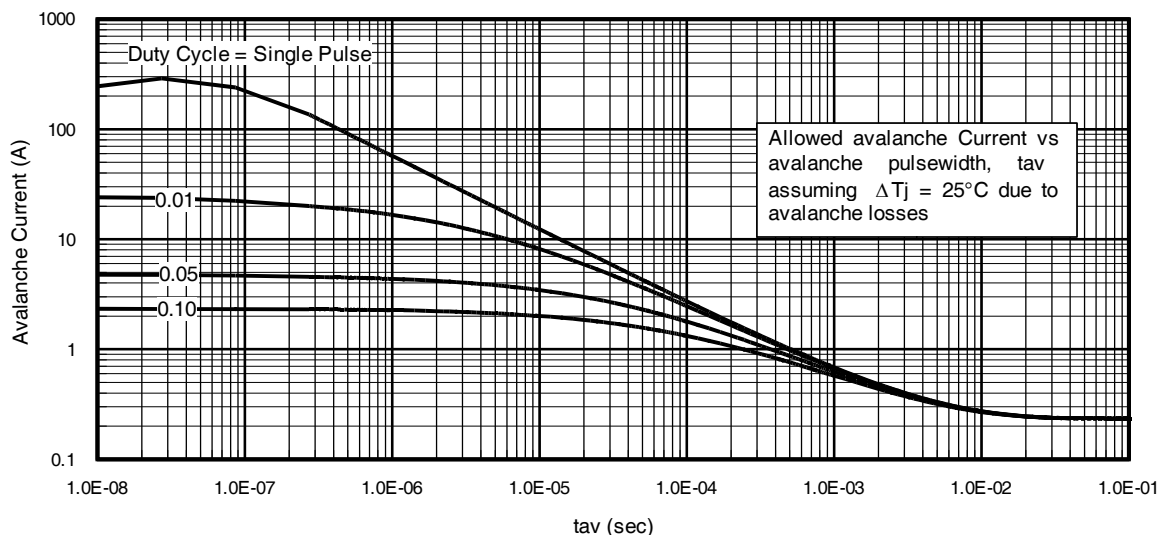


**Fig 10.** Normalized On-Resistance vs. Temperature

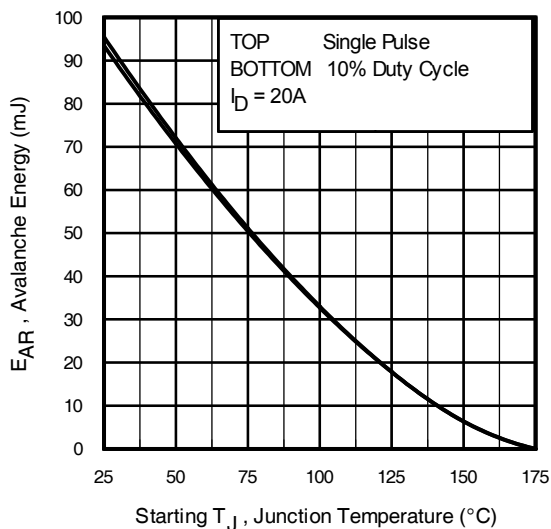


**Fig 11.** Maximum Effective Transient Thermal Impedance, Junction-to-Case


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

**Fig 12b. Unclamped Inductive Waveforms**

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

**Fig 13a. Gate Charge Waveform**

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

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



**Fig 15.** Typical Avalanche Current vs. Pulse width



**Fig 16.** Maximum Avalanche Energy vs. Temperature

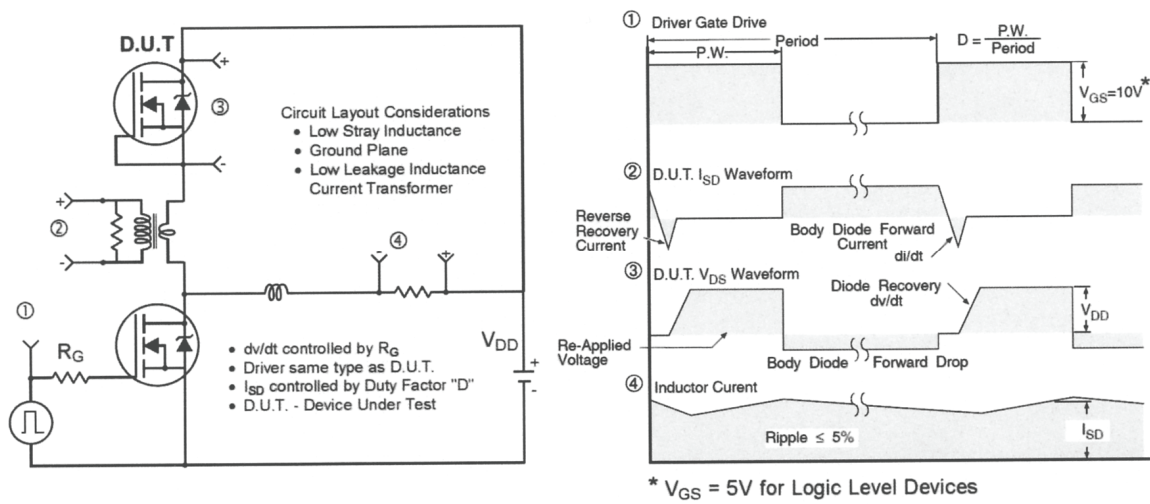
**Notes on Repetitive Avalanche Curves , Figures 15, 16:**  
(For further info, see AN-1005 at [www.infineon.com](http://www.infineon.com))

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 Figures 13)

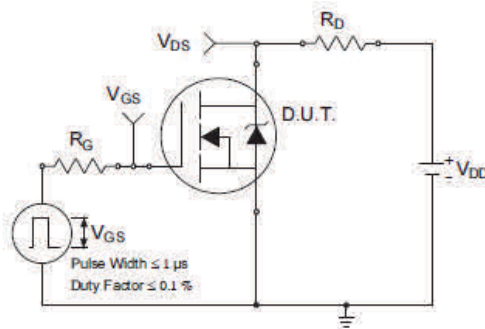
$$P_{D(ave)} = 1/2 (1.3 \cdot BV \cdot I_{av}) = \Delta T / Z_{thJC}$$

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

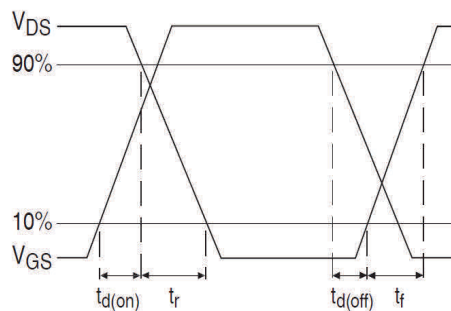
$$E_{AS(AR)} = P_{D(ave)} \cdot t_{av}$$



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

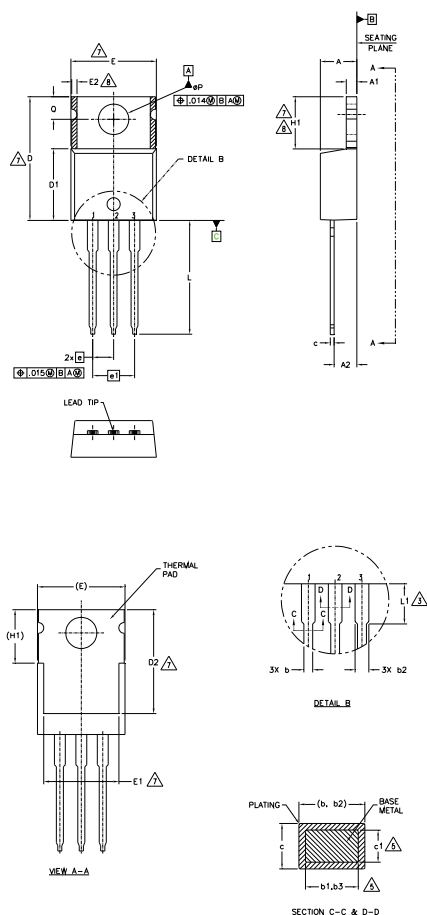


**Fig 18a.** Switching Time Test Circuit



**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 | 5     |
| A1     | 1.14        | 1.40  | .045     | .055 |       |
| A2     | 2.03        | 2.92  | .080     | .115 |       |
| b      | 0.38        | 1.01  | .015     | .040 |       |
| b1     | 0.38        | 0.97  | .015     | .038 |       |
| b2     | 1.14        | 1.78  | .045     | .070 | 5     |
| b3     | 1.14        | 1.73  | .045     | .068 |       |
| 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 | 7     |
| D2     | 11.68       | 12.88 | .460     | .507 |       |
| 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 |      | 7,8   |
| e1     | 5.08 BSC    |       | .200 BSC |      |       |
| H1     | 5.84        | 6.86  | .230     | .270 | 3     |
| L      | 12.70       | 14.73 | .500     | .580 |       |
| L1     | 3.56        | 4.06  | .140     | .160 |       |
| øP     | 3.54        | 4.08  | .139     | .161 | 3     |
| Q      | 2.54        | 3.42  | .100     | .135 |       |

### LEAD ASSIGNMENTS

## HEXFET

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

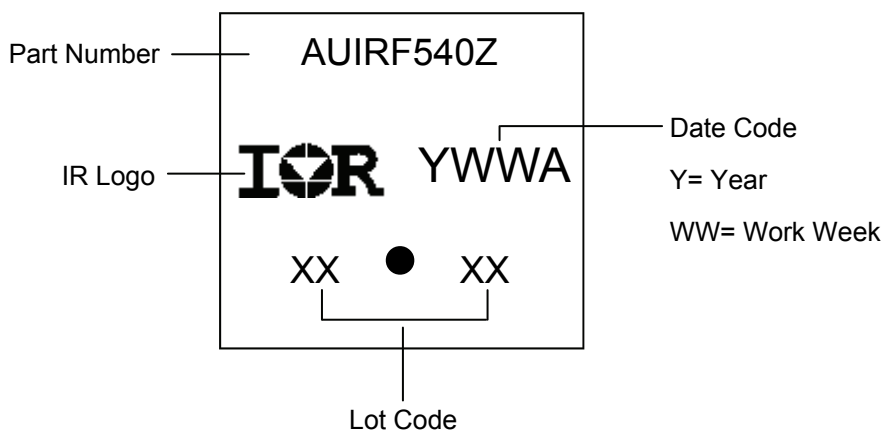
IGBTs, CoPACK

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

## DIODES

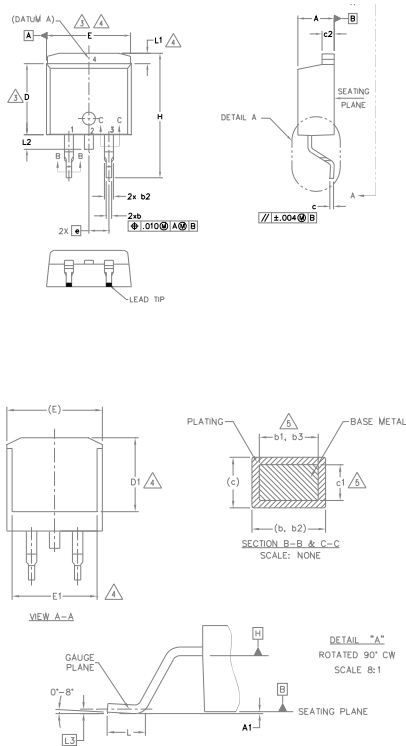
- 1.- ANODE
- 2.- CATHODE
- 3.- ANODE

## TO-220AB Part Marking Information



TO-220AB package is not recommended for Surface Mount Application.

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



### 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, b3 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.

| 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     | —           | 1.68  | —        | .066 |       |
| L2     | —           | 1.78  | —        | .070 |       |
| L3     | 0.25 BSC    |       | .010 BSC |      |       |

### LEAD ASSIGNMENTS

#### DIODES

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

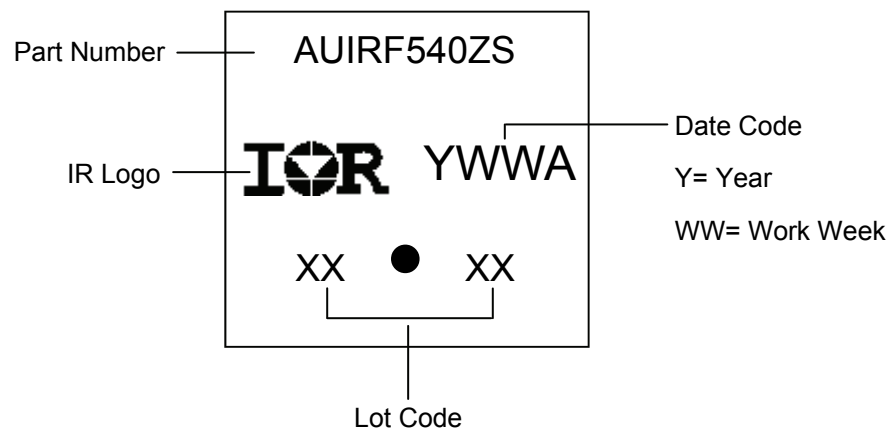
#### HEXFET

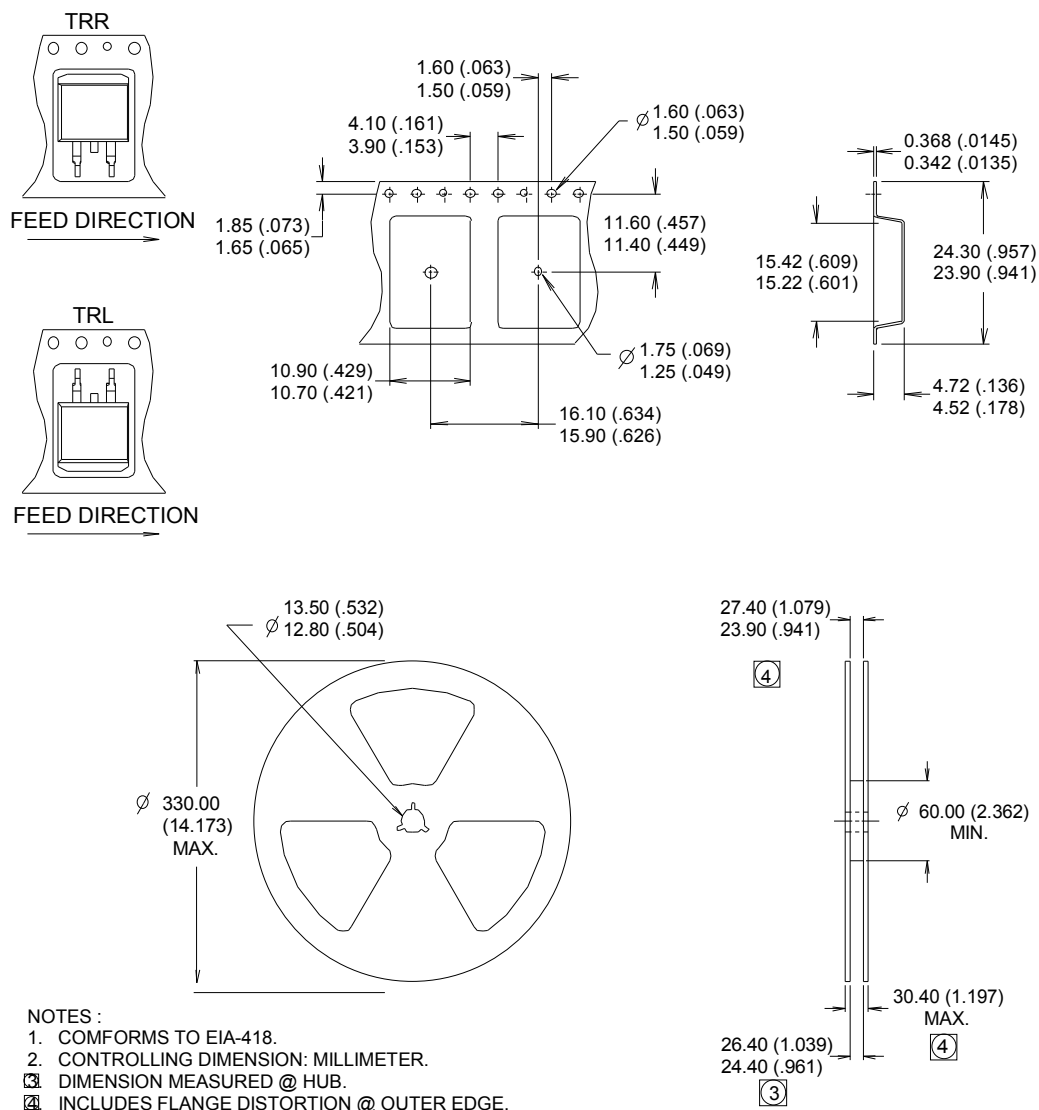
- 1.- GATE
- 2.- DRAIN
- 3.- SOURCE

#### IGBTs, CoPACK

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

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



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


**Qualification Information**

|                                   |                      |                                                                                                                                                                               |      |
|-----------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>Qualification Level</b>        |                      | Automotive<br>(per AEC-Q101)                                                                                                                                                  |      |
|                                   |                      | Comments: This part number(s) passed Automotive qualification. Infineon's Industrial and Consumer qualification level is granted by extension of the higher Automotive level. |      |
| <b>Moisture Sensitivity Level</b> |                      | TO-220AB                                                                                                                                                                      | N/A  |
|                                   |                      | D <sup>2</sup> -Pak                                                                                                                                                           | MSL1 |
| <b>ESD</b>                        | Machine Model        | Class M4 (400V) <sup>†</sup><br>AEC-Q101-002                                                                                                                                  |      |
|                                   | Human Body Model     | Class H1B (1000V) <sup>†</sup><br>AEC-Q101-001                                                                                                                                |      |
|                                   | Charged Device Model | Class C3 (750V) <sup>†</sup><br>AEC-Q101-005                                                                                                                                  |      |
| <b>RoHS Compliant</b>             |                      | Yes                                                                                                                                                                           |      |

† Highest passing voltage.

**Revision History**

| Date       | Comments                                                                                                                                 |
|------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 9/30/2015  | <ul style="list-style-type: none"> <li>Updated datasheet with corporate template</li> <li>Corrected ordering table on page 1.</li> </ul> |
| 09/22/2017 | <ul style="list-style-type: none"> <li>Corrected typo error on part marking on pages 9,10.</li> </ul>                                    |

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