

Features

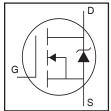
- Optimized for Logic Level Drive
- Advanced Process Technology
- Ultra Low On-Resistance
- 175°C Operating Temperature
- Fast Switching
- Repetitive Avalanche Allowed up to Tjmax
- Lead-Free, RoHS Compliant
- Automotive Qualified *

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 a wide variety of other applications.

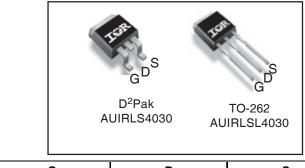
AUIRLS4030 **AUIRLSL4030**

HEXFET® Power MOSFET



AUTOMOTIVE GRADE

| V _{DSS} | | 100V |
|---------------------|------|----------|
| R _{DS(on)} | typ. | 3.4m $Ω$ |
| | max. | 4.3m $Ω$ |
| I _D | | 180A |



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

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.

| | Parameter | Max. | Units |
|-------------------------------|-----------------------------------------------------|----------------------------|-------|
| $I_D @ T_C = 25^{\circ}C$ | Continuous Drain Current, V _{GS} @ 10V | 180 | |
| $I_D @ T_C = 100^{\circ}C$ | Continuous Drain Current, V _{GS} @ 10V | 130 | A |
| I _{DM} | Pulsed Drain Current ① | 730 | |
| $P_{D} @ T_{C} = 25^{\circ}C$ | Maximum Power Dissipation | 370 | W |
| | Linear Derating Factor | 2.5 | W/°C |
| V_{GS} | Gate-to-Source Voltage | ± 16 | V |
| E _{AS} | Single Pulse Avalanche Energy (Thermally limited) ② | 305 | mJ |
| I _{AR} | Avalanche Current ① | See Fig. 14, 15, 22a, 22b, | Α |
| E _{AR} | Repetitive Avalanche Energy ① | | mJ |
| dv/dt | Peak Diode Recovery ③ | 21 | V/ns |
| T_{J} | Operating Junction and | -55 to + 175 | |
| T _{STG} | Storage Temperature Range | | °C |
| | Soldering Temperature, for 10 seconds | 300 | |
| | (1.6mm from case) | | |

Thermal Resistance

| | Parameter | Тур. | Max. | Units |
|-----------------|------------------------------------------|------|------|-------|
| $R_{\theta JC}$ | Junction-to-Case ⑦⑨ | | 0.40 | °C/W |
| $R_{\theta JA}$ | Junction-to-Ambient (PCB Mount), D2Pak ® | | 40 | |

HEXFET® is a registered trademark of International Rectifier.

^{*}Qualification standards can be found at http://www.irf.com/



Static Electrical Characteristics @ T_J = 25°C (unless otherwise specified)

| | Parameter | Min. | Тур. | 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 | | 0.10 | | V/°C | Reference to 25°C, I _D = 5mA① |
| R _{DS(on)} | Static Drain-to-Source On-Resistance | | 3.4 | 4.3 | mΩ | V _{GS} = 10V, I _D = 110A ⊕ |
| | | | 3.6 | 4.5 | | $V_{GS} = 4.5V, I_D = 92A $ |
| $V_{GS(th)}$ | Gate Threshold Voltage | 1.0 | | 2.5 | V | $V_{DS} = V_{GS}$, $I_D = 250\mu A$ |
| gfs | Forward Transconductance | 320 | | | S | $V_{DS} = 25V, I_{D} = 110A$ |
| I _{DSS} | Drain-to-Source Leakage Current | | | 20 | | $V_{DS} = 100V, V_{GS} = 0V$ |
| | | | | 250 | μΑ | $V_{DS} = 100V, V_{GS} = 0V, T_{J} = 125^{\circ}C$ |
| I _{GSS} | Gate-to-Source Forward Leakage | | | 100 | π Λ | $V_{GS} = 16V$ |
| | Gate-to-Source Reverse Leakage | | | -100 | nA | $V_{GS} = -16V$ |
| R _{G(int)} | Internal Gate Resistance | | 2.1 | | Ω | |

Dynamic Electrical Characteristics @ T_J = 25°C (unless otherwise specified)

| | Parameter | Min. | Тур. | Max. | Units | Conditions |
|----------------------------|-------------------------------------------------------------|------|-------|------|-------|-----------------------------------------------------|
| Q_g | Total Gate Charge | | 87 | 130 | | I _D = 110A |
| Q_{gs} | Gate-to-Source Charge | | 27 | | ~C | $V_{DS} = 50V$ |
| Q_{gd} | Gate-to-Drain ("Miller") Charge | | 45 | | nC | V _{GS} = 4.5V ④ |
| Q _{sync} | Total Gate Charge Sync. (Q _g - Q _{gd}) | | 42 | | | $I_D = 110A, V_{DS} = 0V, V_{GS} = 4.5V$ |
| t _{d(on)} | Turn-On Delay Time | | 74 | | | $V_{DD} = 65V$ |
| t _r | Rise Time | | 330 | | | I _D = 110A |
| t _{d(off)} | Turn-Off Delay Time | | 110 | | ns | $R_G = 2.7\Omega$ |
| t _f | Fall Time | | 170 | | | V _{GS} = 4.5V ④ |
| C _{iss} | Input Capacitance | | 11360 | | | $V_{GS} = 0V$ |
| C _{oss} | Output Capacitance | | 670 | _ | | $V_{DS} = 50V$ |
| C _{rss} | Reverse Transfer Capacitance | | 290 | | рF | f = 1.0MHz |
| C _{oss} eff. (ER) | Effective Output Capacitance (Energy Related) | | 760 | | | V _{GS} = 0V, V _{DS} = 0V to 80V © |
| C _{oss} eff. (TR) | Effective Output Capacitance (Time Related) | | 1140 | | | $V_{GS} = 0V, V_{DS} = 0V \text{ to } 80V $ |

Diode Characteristics

| | Parameter | Min. | Тур. | Max. | Units | Conditions |
|------------------|---------------------------|---------|---------|---------|---------|-----------------------------------------------------|
| Is | Continuous Source Current | | | 180 | | MOSFET symbol |
| | (Body Diode) | | | 160 | A | showing the |
| I _{SM} | Pulsed Source Current | | | 730 | ^ | integral reverse |
| | (Body Diode) ① | | | 730 | | p-n junction diode. |
| V_{SD} | Diode Forward Voltage | | | 1.3 | V | $T_J = 25^{\circ}C, I_S = 110A, V_{GS} = 0V \oplus$ |
| t _{rr} | Reverse Recovery Time | | 50 | | no | $T_J = 25^{\circ}C$ $V_R = 85V$, |
| | | | 60 | | ns | $T_J = 125^{\circ}C$ $I_F = 110A$ |
| Q _{rr} | Reverse Recovery Charge | | 88 | | nC | $T_J = 25^{\circ}C$ di/dt = 100A/ μ s @ |
| | | | 130 | | | $T_J = 125^{\circ}C$ |
| I _{RRM} | Reverse Recovery Current | | 3.3 | | Α | $T_J = 25^{\circ}C$ |
| t _{on} | Forward Turn-On Time | Intrins | c turn- | on time | is negl | igible (turn-on is dominated by LS+LD) |

Notes:

- ① Repetitive rating; pulse width limited by max. junction temperature.
- ② Limited by T_{Jmax} , starting $T_J=25^{\circ}C$, L=0.05mH, $R_G=25\Omega$, $I_{AS}=110A$, $V_{GS}=10V$. Part not recommended for use above this value .
- $\label{eq:local_special} \ensuremath{\Im} \ I_{SD} \leq 110A, \ di/dt \leq 1330A/\mu s, \ V_{DD} \leq V_{(BR)DSS}, \ T_J \leq 175^{\circ}C.$
- 4 Pulse width $\leq 400 \mu s$; duty cycle $\leq 2\%$.

- $\ \ \, \ \, \ \,$ $\ \, \ \,$ C_{oss} eff. (TR) is a fixed capacitance that gives the same charging time as C_{oss} while V_{DS} is rising from 0 to 80% V_{DSS}
- $\ \ \,$ C $_{OSS}$ eff. (ER) is a fixed capacitance that gives the same energy as C $_{OSS}$ while V $_{DS}$ is rising from 0 to 80% V $_{DSS}.$
- $\ensuremath{\mathfrak{D}}$ R_θ is measured at T_J approximately 90°C.
- When mounted on 1" square PCB (FR-4 or G-10 Material). For recommended footprint and soldering techniquea refer to application note # AN- 994 echniques refer to application note #AN-994.
- $\ \ \, \ \, \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \ \,$ $\ \$ $\ \$ $\ \$ $\ \ \,$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\ \$ $\$ $\ \$ $\ \$ $\ \$ $\$ $\ \$ $\$ $\ \$ $\ \$ $\ \$ $\$ $\ \$ $\$ $\ \$ $\$ $\ \$ $\$ $\ \$ $\$ $\ \$ $\$ $\$ $\$ $\$ $\ \$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$

Qualification Information[†]

| Qualification Level | | Automotive (per AEC-Q101) †† | | | |
|----------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--|--|
| | | Comments: This part number(s) passed Automotive qualification. IR's Industrial and Consumer qualification level is granted by extension of the higher Automotive level. | | | |
| Maiatana Canaitinita Lauri | | 3L-D2 PAK | MSL1 | | |
| worsture Sens | Moisture Sensitivity Level | | 3L-TO-262 N/A | | |
| | Machine Model | Class M4(+/- 800V) ^{†††} | | | |
| | Wacrille Wodel | (per AEC-Q101-002) | | | |
| 505 | Llaure en Deuka Meulel | Class H3A(+/- 6000V) ^{†††} | | | |
| ESD | Human Body Model | (per AEC-Q101-001) | | | |
| St. 15 : 14 !! | | Class C5(+/- 2000V) ^{†††} | | | |
| Charged Device Model | | (per AEC-Q101-005) | | | |
| RoHS Compliant | | Yes | | | |

[†] Qualification standards can be found at International Rectifier's web site: http://www.irf.com/

^{††} Exceptions (if any) to AEC-Q101 requirements are noted in the qualification report.

^{†††} Highest passing voltage

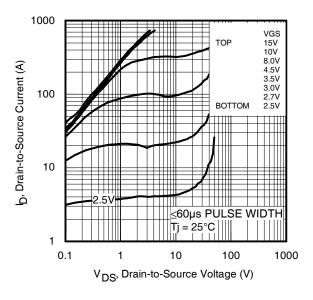


Fig 1. Typical Output Characteristics

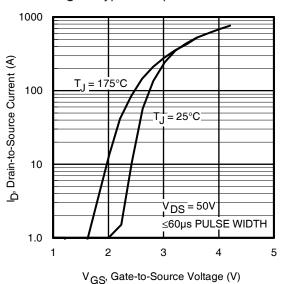


Fig 3. Typical Transfer Characteristics

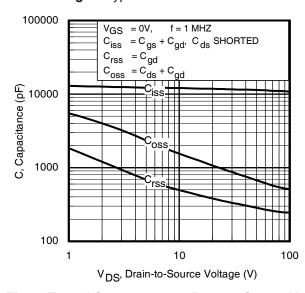


Fig 5. Typical Capacitance vs. Drain-to-Source Voltage

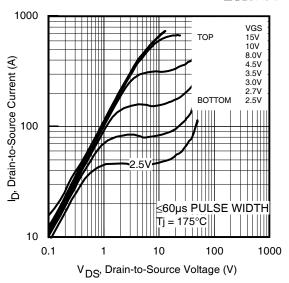


Fig 2. Typical Output Characteristics

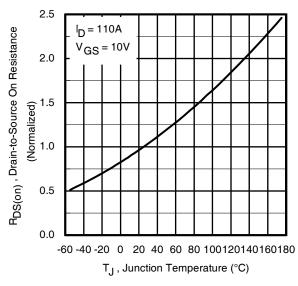


Fig 4. Normalized On-Resistance vs. Temperature

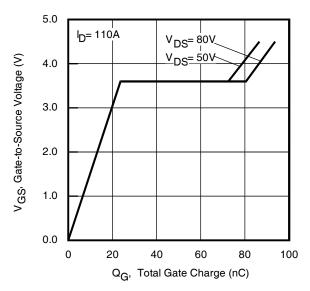


Fig 6. Typical Gate Charge vs. Gate-to-Source Voltage www.irf.com

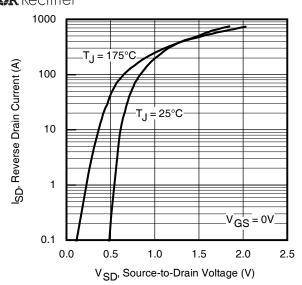


Fig 7. Typical Source-Drain Diode Forward Voltage

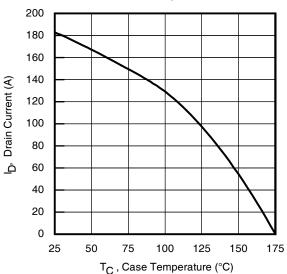
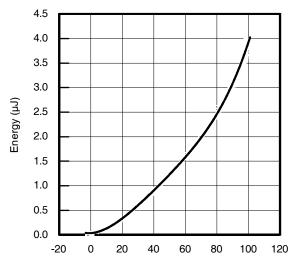


Fig 9. Maximum Drain Current vs.
Case Temperature



V_{DS,} Drain-to-Source Voltage (V) **Fig 11.** Typical C_{OSS} Stored Energy

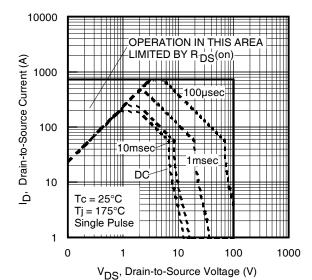


Fig 8. Maximum Safe Operating Area

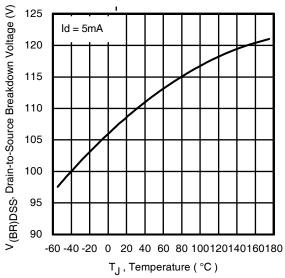


Fig 10. Drain-to-Source Breakdown Voltage

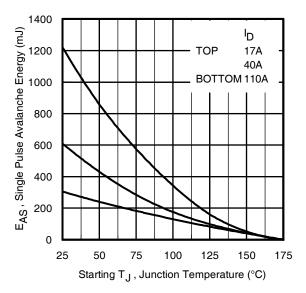


Fig 12. Maximum Avalanche Energy vs. DrainCurrent

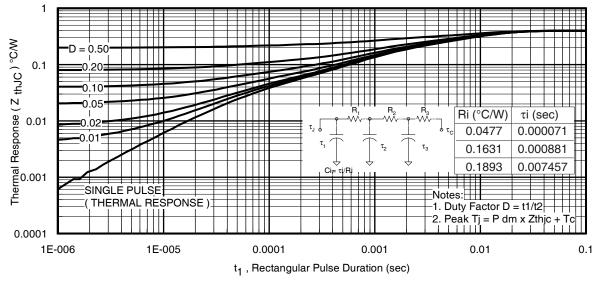


Fig 13. Maximum Effective Transient Thermal Impedance, Junction-to-Case

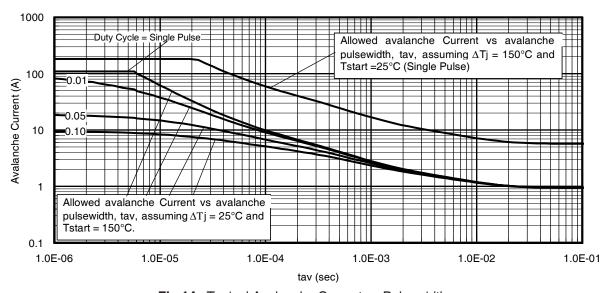


Fig 14. Typical Avalanche Current vs. Pulsewidth

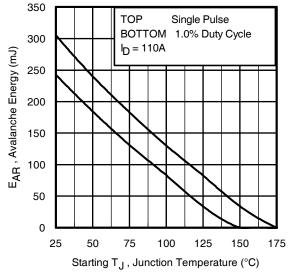


Fig 15. Maximum Avalanche Energy vs. Temperature

Notes on Repetitive Avalanche Curves , Figures 14, 15: (For further info, see AN-1005 at 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 asT_{imax} is not exceeded.
- 3. Equation below based on circuit and waveforms shown in Figures 22a, 22b.
- 4. $P_{D (ave)}$ = Average power dissipation per single avalanche pulse.
- BV = Rated breakdown voltage (1.3 factor accounts for voltage increase during avalanche).
- 6. I_{av} = Allowable avalanche current.
- 7. ΔT = Allowable rise in junction temperature, not to exceed T_{jmax} (assumed as 25°C in Figure 14, 15).
 - t_{av} = Average time in avalanche.
 - D = Duty cycle in avalanche = $t_{av} \cdot f$

 $Z_{th,JC}(D, t_{av})$ = Transient thermal resistance, see Figures 13)

$$\begin{split} P_{D \text{ (ave)}} &= 1/2 \text{ (} 1.3 \cdot \text{BV} \cdot \text{I}_{av} \text{)} = \triangle \text{T/ } Z_{thJC} \\ I_{av} &= 2\triangle \text{T/ [} 1.3 \cdot \text{BV} \cdot Z_{th} \text{]} \\ E_{AS \text{ (AR)}} &= P_{D \text{ (ave)}} \cdot t_{av} \end{split}$$

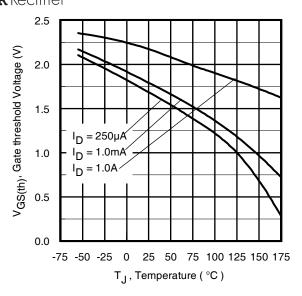


Fig 16. Threshold Voltage vs. Temperature

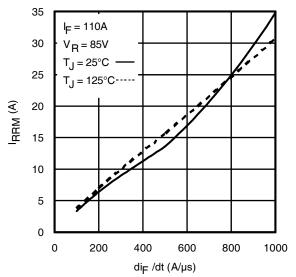


Fig. 18 - Typical Recovery Current vs. dif/dt

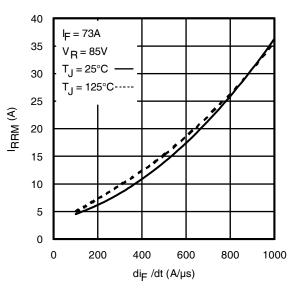


Fig. 17 - Typical Recovery Current vs. di_f/dt

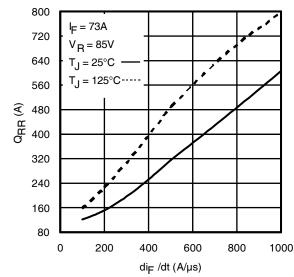


Fig. 19 - Typical Stored Charge vs. dif/dt

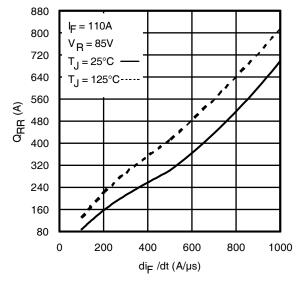


Fig. 20 - Typical Stored Charge vs. dif/dt

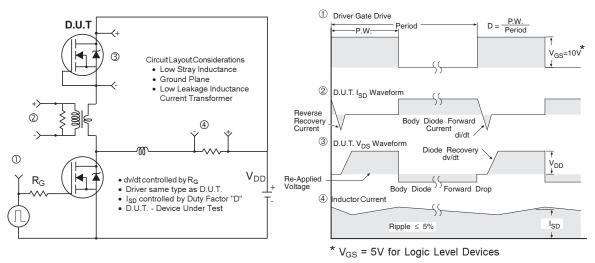


Fig 21. Peak Diode Recovery dv/dt Test Circuit for N-Channel HEXFET® Power MOSFETs

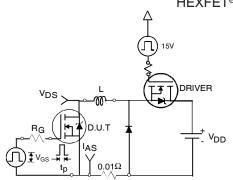


Fig 22a. Unclamped Inductive Test Circuit

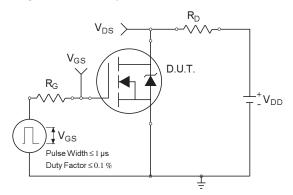


Fig 23a. Switching Time Test Circuit

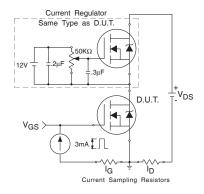


Fig 24a. Gate Charge Test Circuit

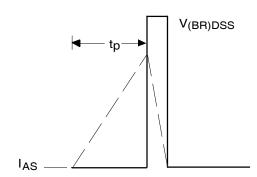


Fig 22b. Unclamped Inductive Waveforms

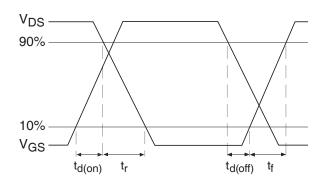


Fig 23b. Switching Time Waveforms

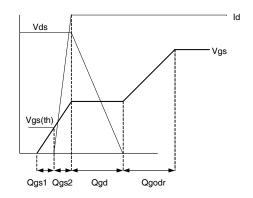
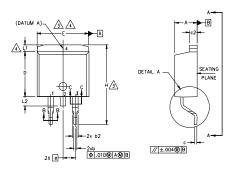
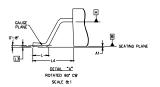


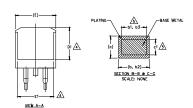
Fig 24b. Gate Charge Waveform

$D^2 Pak \ \ Package \ \ Outline \ \ \ (\hbox{\tiny Dimensions are shown in millimeters (inches)})$









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 [.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 61 AND 61 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 Y | | | N | | |
|-------------|--------|-------|------|------|------------------|
| М В О | MILLIM | ETERS | INC | HES | O T E S |
| L | MIN. | MAX. | MIN. | MAX. | E S |
| Α | 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 | |
| c1 | 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 | - | 1.65 | - | .066 | 4 |
| L2 | 1.27 | 1.78 | - | .070 | |
| L3 | 0.25 | BSC | .010 | BSC | |
| L4 | 4.78 | 5.28 | .188 | .208 | |

LEAD ASSIGNMENTS

<u>HEXFET</u>

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

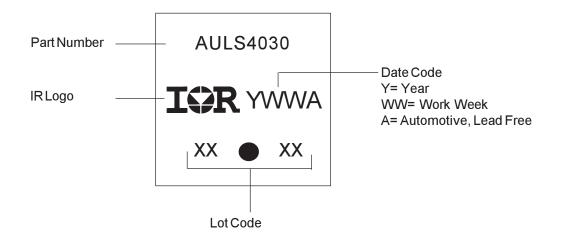
IGBTs, CoPACK

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

DIODES

- 1.- ANODE *
 2, 4.- CATHODE
 3,- ANODE
- * PART DEPENDENT.

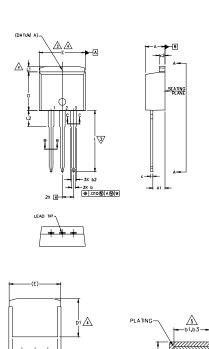
D²Pak Part Marking Information



TO-262 Package Outline (Dimensions are shown in millimeters (inches))

-BASE METAL

SECTION B-B & C-C SCALE: NONE



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 [.005"] PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTMOST EXTREMES OF THE PLASTIC BODY.

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

5. DIMENSION 61 AND c1 APPLY TO BASE METAL ONLY.

- 6. CONTROLLING DIMENSION: INCH.
- 7.- OUTLINE CONFORM TO JEDEC TO-262 EXCEPT A1(mox.), b(min.) AND D1(min.) WHERE DIMENSIONS DERIVED THE ACTUAL PACKAGE OUTLINE.

| S | DIMENSIONS | | | | | |
|------------------|------------|-------|------|------|------------------|--|
| M B O L | MILLIM | ETERS | INC | HES | O T E S | |
| L | MIN. | MAX. | MIN. | MAX. | S | |
| Α | 4.06 | 4.83 | .160 | .190 | | |
| A1 | 2.03 | 3.02 | .080 | .119 | | |
| ь | 0.51 | 0.99 | .020 | .039 | | |
| ь1 | 0.51 | 0.89 | .020 | .035 | 5 | |
| ь2 | 1,14 | 1.78 | .045 | .070 | | |
| b3 | 1,14 | 1.73 | .045 | .068 | 5 | |
| С | 0.38 | 0.74 | .015 | .029 | | |
| c1 | 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 | |
| e | 2,54 | BSC | .100 | BSC | | |
| L | 13.46 | 14,10 | .530 | .555 | | |
| L1 | - | 1.65 | - | .065 | 4 | |
| L2 | 3,56 | 3,71 | .140 | .146 | | |

LEAD ASSIGNMENTS

HEXFET 1.- GATE 2.- DRAIN

2.- DRAIN 3.- SOURCE 4.- DRAIN

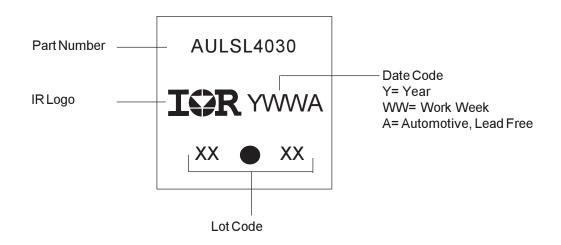
IGBTs, CoPACK

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

4. - COLLECTOR

TO-262 Part Marking Information

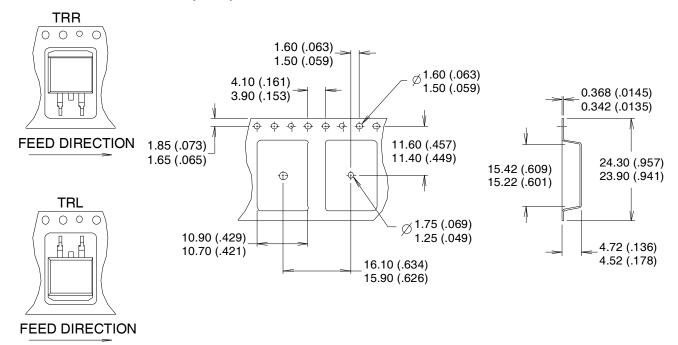
SECTION A-A

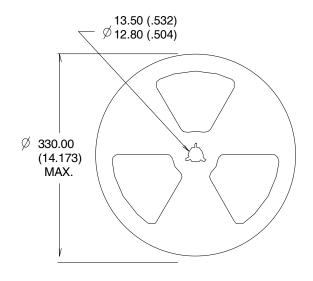


Note: For the most current drawing please refer to IR website at http://www.irf.com/package/

D²Pak (TO-263AB) Tape & Reel Information

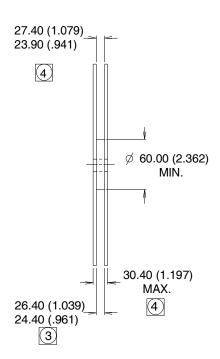
Dimensions are shown in millimeters (inches)







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



Ordering Information

| Base part | Package Type | Standard Pack | | Complete Part Number |
|-------------|--------------|---------------------|----------|----------------------|
| | | Form | Quantity | |
| AUIRLSL4030 | TO-262 | Tube | 50 | AUIRLSL4030 |
| AUIRLS4030 | D2Pak | Tube | 50 | AUIRLS4030 |
| | | Tape and Reel Left | 800 | AUIRLS4030TRL |
| | | Tape and Reel Right | 800 | AUIRLS4030TRR |

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http://www.irf.com/technical-info/

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