

### **AUTOMOTIVE GRADE**

# AUIRFR2407

HEXFET® Power MOSFET

#### **Features**

- Advanced Planar Technology
- Low On-Resistance
- Dynamic dV/dT Rating
- 175°C Operating Temperature
- Fast Switching

Description

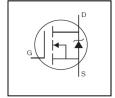
applications.

- Fully Avalanche Rated
- Repetitive Avalanche Allowed up to Timax

Specifically designed for Automotive applications, this Stripe Planar design of HEXFET® Power MOSFETs utilizes the latest

reliable device for use in Automotive and a wide variety of other

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



V <sub>DSS</sub>		75V
R <sub>DS(on)</sub>	typ.	21.8mΩ
	max.	26mΩ
D (Silicon Limited)		42A



G	D	S
Gate	Drain	Source

# processing techniques to achieve low on-resistance per silicon area. This benefit combined with the fast switching speed and ruggedized device design that HEXFET power MOSFETs are well known for, provides the designer with an extremely efficient and

Boss nort number	Standard Pack		Orderable Part Number		
Base part number	Package Type	Form	Quantity	Orderable Part Number	
ALUDED2407	D. Dok	Tube	75	AUIRFR2407	
AUIRFR2407	D-Pak	Tape and Reel Left	3000	AUIRFR2407TRL	

### **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)	42	
I <sub>D</sub> @ T <sub>C</sub> = 100°C	Continuous Drain Current, V <sub>GS</sub> @ 10V (Silicon Limited)	29	Α
I <sub>DM</sub>	Pulsed Drain Current ①	170	
P <sub>D</sub> @T <sub>C</sub> = 25°C	Maximum Power Dissipation	110	W
	Linear Derating Factor	0.71	W/°C
$V_{GS}$	Gate-to-Source Voltage	± 20	V
E <sub>AS</sub>	Single Pulse Avalanche Energy (Thermally Limited) ②	130	mJ
I <sub>AR</sub>	Avalanche Current ①	25	Α
E <sub>AR</sub>	Repetitive Avalanche Energy ①	11	mJ
dv/dt	Pead Diode Recovery dv/dt③	5.0	V/ns
TJ	Operating Junction and	-55 to + 175	
$T_{STG}$	Storage Temperature Range		°C
	Soldering Temperature, for 10 seconds (1.6mm from case)	300	

### **Thermal Resistance**

Symbol	Parameter	Тур.	Max.	Units
$R_{ hetaJC}$	Junction-to-Case ∅		1.4	
$R_{ heta JA}$	Junction-to-Ambient ( PCB Mount) ®		50	°C/W
$R_{ heta JA}$	Junction-to-Ambient		110	

HEXFET® is a registered trademark of Infineon.

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



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

	Parameter	Min.	Тур.	Max.	Units	Conditions
$V_{(BR)DSS}$	Drain-to-Source Breakdown Voltage	75			V	$V_{GS} = 0V, I_D = 250\mu A$
$\Delta V_{(BR)DSS}/\Delta T_J$	Breakdown Voltage Temp. Coefficient		0.078		V/°C	Reference to 25°C, I <sub>D</sub> = 1mA
R <sub>DS(on)</sub>	Static Drain-to-Source On-Resistance		21.8	26.0	mΩ	V <sub>GS</sub> = 10V, I <sub>D</sub> = 25A ④
$V_{GS(th)}$	Gate Threshold Voltage	2.0		4.0	V	$V_{DS} = V_{GS}, I_{D} = 250 \mu A$
gfs	Forward Trans conductance	27			S	$V_{DS} = 25V, I_{D} = 25A \oplus$
ı	Drain-to-Source Leakage Current			25		$V_{DS} = 75 \text{ V}, V_{GS} = 0 \text{ V}$
I <sub>DSS</sub>	Drain-to-Source Leakage Current			250	μA	$V_{DS} = 60V, V_{GS} = 0V, T_{J} = 150^{\circ}C$
1	Gate-to-Source Forward Leakage			200	n 1	V <sub>GS</sub> = 20V
I <sub>GSS</sub>	Gate-to-Source Reverse Leakage			-200		V <sub>GS</sub> = -20V

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

$Q_g$	Total Gate Charge	 74	110		I <sub>D</sub> = 25A
$Q_{gs}$	Gate-to-Source Charge	 13	19	nC	$V_{DS} = 60V$
$\overline{Q_{gd}}$	Gate-to-Drain Charge	 22	34		V <sub>GS</sub> = 10V④
$t_{d(on)}$	Turn-On Delay Time	 16			$V_{DD} = 38V$
t <sub>r</sub>	Rise Time	 90		20	I <sub>D</sub> = 25A
$t_{d(off)}$	Turn-Off Delay Time	 65		ns	$R_G = 6.8\Omega$
t <sub>f</sub>	Fall Time	 66			V <sub>GS</sub> = 10V4
L <sub>D</sub>	Internal Drain Inductance	 4.5		nH	Between lead, 6mm (0.25in.)
L <sub>S</sub>	Internal Source Inductance	 7.5		Ш	from package and center of die contact
C <sub>iss</sub>	Input Capacitance	 2400			$V_{GS} = 0V$
Coss	Output Capacitance	 340			V <sub>DS</sub> = 25V
C <sub>rss</sub>	Reverse Transfer Capacitance	 77		_	f = 1.0MHz, See Fig. 5
C <sub>oss</sub>	Output Capacitance	 15700		pF	$V_{GS} = 0V, V_{DS} = 1.0V, f = 1.0MHz$
C <sub>oss</sub>	Output Capacitance	 220			$V_{GS} = 0V, V_{DS} = 60V, f = 1.0MHz$
C <sub>oss eff.</sub>	Effective Output Capacitance	 220			$V_{GS} = 0V, V_{DS} = 0V \text{ to } 60V$

## **Diode Characteristics**

	Parameter	Min.	Тур.	Max.	Units	Conditions
I <sub>S</sub>	Continuous Source Current (Body Diode)			42		MOSFET symbol showing the
I <sub>SM</sub>	Pulsed Source Current (Body Diode) ①			170		integral reverse p-n junction diode.
$V_{SD}$	Diode Forward Voltage			1.3	V	$T_J = 25^{\circ}C, I_S = 25A, V_{GS} = 0V $ ④
t <sub>rr</sub>	Reverse Recovery Time		100	150	ns	$T_J = 25^{\circ}C$ , $I_F = 25A$
$Q_{rr}$	Reverse Recovery Charge		400	600	nC	di/dt = 100A/µs④
t <sub>on</sub>	Forward Turn-On Time	Intrinsio	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.
- $^{\circ}$  V<sub>DD</sub> = 25V, starting T<sub>J</sub> = 25°C, L = 0.42mH, R<sub>G</sub> = 25 $\Omega$ , I<sub>AS</sub> = 25A
- $\label{eq:local_local_local_local} \ensuremath{\Im} \quad I_{SD} \leq 25 A, \ di/dt \leq 290 A/\mu s, \ V_{DD} \leq V_{(BR)DSS}, \ T_J \leq 175^{\circ} C.$
- 4 Pulse width  $\leq 300 \mu s$ ; duty cycle  $\leq 2\%$ .
- $\circ$  C<sub>oss eff</sub> is a fixed capacitance that gives the same charging time as C<sub>oss</sub> while V<sub>DS</sub> is rising from 0 to 80% V<sub>DSS</sub>.
- When mounted on 1" square PCB (FR-4 or G-10 Material). For recommended footprint and soldering techniques refer to application note #AN-994.

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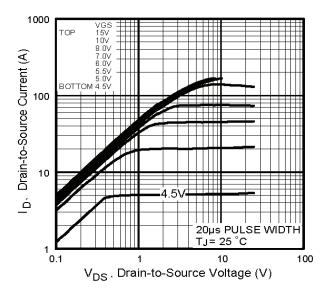


Fig. 1 Typical Output Characteristics

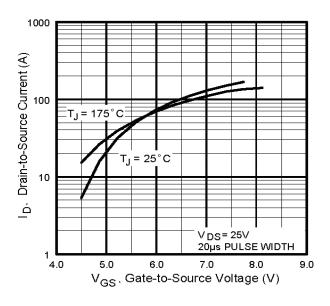


Fig. 3 Typical Transfer Characteristics

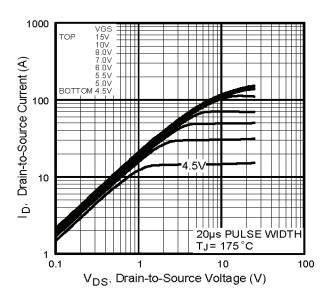
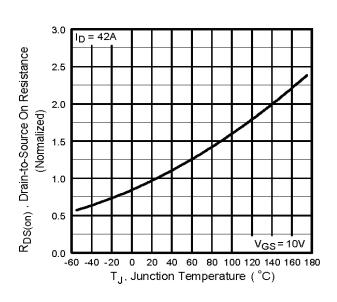
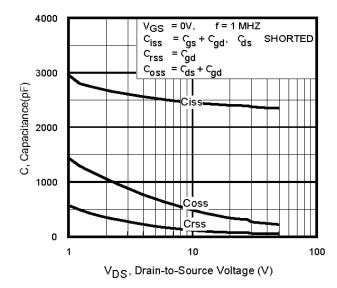


Fig. 2 Typical Output Characteristics

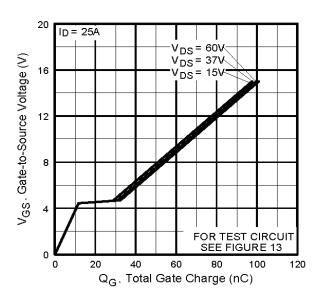


**Fig. 4** Normalized On-Resistance Vs. Temperature





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



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

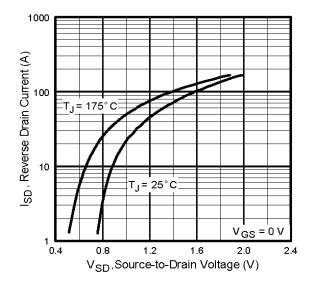


Fig. 7 Typical Source-to-Drain Diode Forward Voltage

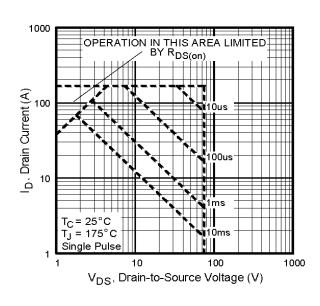
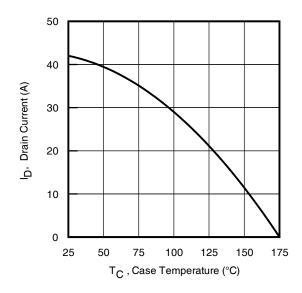


Fig 8. Maximum Safe Operating Area





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

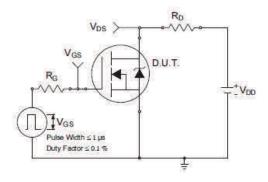


Fig 10a. Switching Time Test Circuit

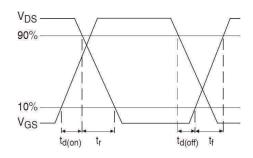


Fig 10b. Switching Time Waveforms

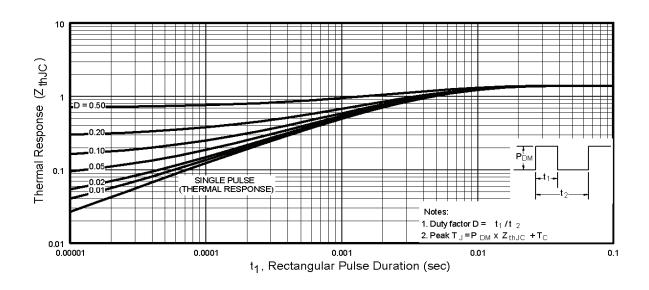


Fig 11. Maximum Effective Transient Thermal Impedance, Junction-to-Case



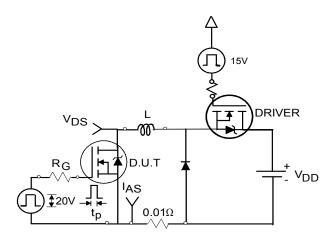


Fig 12a. Unclamped Inductive Test Circuit

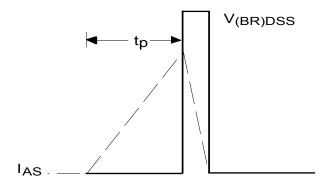


Fig 12b. Unclamped Inductive Waveforms

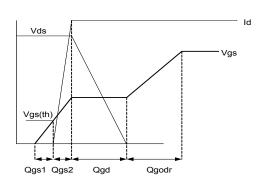
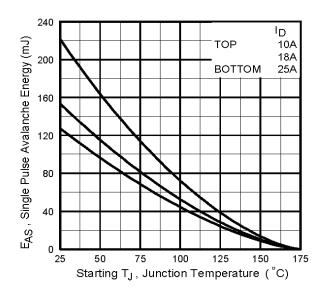


Fig 13a. Gate Charge Waveform



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

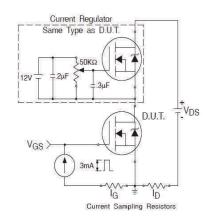
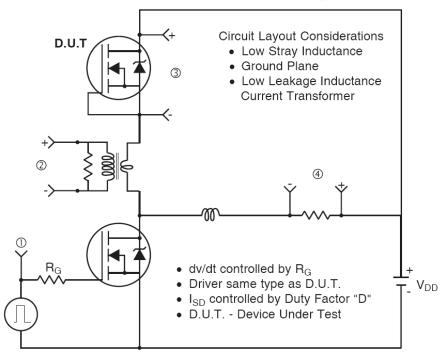


Fig 13b. Gate Charge Test Circuit

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# Peak Diode Recovery dv/dt Test Circuit



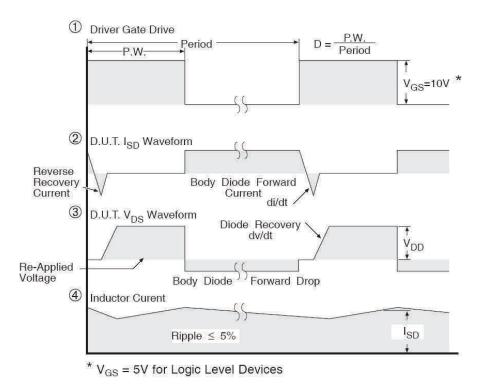
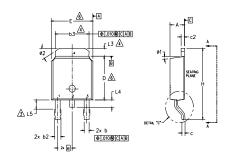


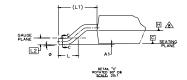
Fig 14. Peak Diode Recovery dv/dt Test Circuit for N-Channel HEXFET® Power MOSFETs

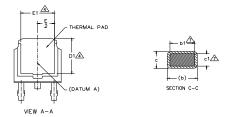


# D-Pak (TO-252AA) Package Outline (Dimensions are shown in millimeters (inches))









#### NOTES:

- 1.- DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
- 2.- DIMENSION ARE SHOWN IN INCHES [MILLIMETERS].
- 3- LEAD DIMENSION UNCONTROLLED IN L5.
- A- DIMENSION D1, E1, L3 & b3 ESTABLISH A MINIMUM MOUNTING SURFACE FOR THERMAL PAD.
- 5.— SECTION C-C DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN .005 AND 0.10 [0.13 AND 0.25] FROM THE LEAD TIP.
- Limension D & E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED .005 [0.13] PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTMOST EXTREMES OF THE PLASTIC BODY.
- A- DIMENSION b1 & c1 APPLIED TO BASE METAL ONLY.
- ♠ DATUM A & B TO BE DETERMINED AT DATUM PLANE H.
- 9.- OUTLINE CONFORMS TO JEDEC OUTLINE TO-252AA.

S DIMENSIONS         N O T E E E E E E E E E E E E E E E E E E	$\overline{}$					$\overline{}$
B O L         MILLIMETERS         INCHES         T C S           A 2.18         2.39         .086         .094           A1         —         0.13         —         .005           b 0.64         0.89         .025         .031         7           b2         0.76         1.14         .030         .045           b3         4.95         5.46         .195         .215         4           c 0.46         0.61         .018         .024         7           c2         0.46         0.61         .018         .024         7           c2         0.46         0.89         .018         .035         6 <t< td=""><td>Y</td><td></td><td>DIMEN</td><td>SIONS</td><td></td><td></td></t<>	Y		DIMEN	SIONS		
A         2.18         2.39         .086         .094           A1         —         0.13         —         .005           b         0.64         0.89         .025         .035           b1         0.65         0.79         .025         .031         7           b2         0.76         1.14         .030         .045           b3         4.95         5.46         .195         .215         4           c1         0.46         0.61         .018         .024           c1         0.41         0.56         .016         .022         7           c2         0.46         0.89         .018         .035           D         5.97         6.22         .235         .245         6           D1         5.21         —         .205         —         4           E         6.35         6.73         .250         .265         6           E1         4.32         —         .170         —         4           E         6.229         BSC         .090         BSC           H         9.40         10.41         .370         .410           L	В	MILLIM	ETERS	INC	HES	Ī
A1         -         0.13         -         .005           b         0.64         0.89         .025         .035           b1         0.65         0.79         .025         .031         7           b2         0.76         1.14         .030         .045           b3         4.95         5.46         .195         .215         4           c         0.46         0.61         .018         .024         7           c2         0.46         0.89         .018         .035         6           D         5.97         6.22         .235         .245         6           D1         5.21         -         .205         -         4           E         6.35         6.73         .250         .265         6           E1         4.32         -         .170         -         4           e         2.29         BSC         .090         BSC           H         9.40         10.41         .370         .410           L         1.40         1.78         .055         .070           L1         2.74         BSC         .020         BSC		MIN.	MAX.	MIN.	MAX.	S
b         0.64         0.89         0.025         0.35           b1         0.65         0.79         0.025         0.31         7           b2         0.76         1.14         0.30         0.045         4           b3         4.95         5.46         1.95         .215         4           c         0.46         0.61         .018         .024           c1         0.41         0.56         .016         .022         7           c2         0.46         0.89         .018         .035         6           D         5.97         6.22         .235         .245         6           E1         6.35         6.73         .250         .265         6           E1         4.32         -         .170         -         4           e         2.29         BSC         .090         BSC           H         9.40         10.41         .370         .410           L         1.40         1.78         .055         .070           L1         2.74         BSC         .108         REF.           L2         0.51         BSC         .020         BSC	Α	2.18	2.39	.086	.094	
b1         0.65         0.79         0.25         0.31         7           b2         0.76         1.14         0.30         0.045           b3         4.95         5.46         1.95         .215         4           c         0.46         0.61         .018         .024         7           c2         0.46         0.89         .018         .035         6         0         0         0         0.35         6         6         0         0         0         0         6         0         <	A1	-	0.13	-	.005	
b2         0.76         1.14         0.30         0.045           b3         4.95         5.46         1.95         2.15         4           c         0.46         0.61         .018         .024           c1         0.41         0.56         .016         .022         7           c2         0.46         0.89         .018         .035         6           D         5.97         6.22         .235         .245         6           D1         5.21         -         .205         -         4           E         6.35         6.73         .250         .265         6           E1         4.32         -         .170         -         4           e         2.29         BSC         .090         BSC           H         9.40         10.41         .370         .410           L         1.40         1.78         .055         .070           L1         2.74         BSC         .020         BSC           L3         0.89         1.27         .035         .050         4           L4         -         1.02         -         .040	b	0.64	0.89	.025	.035	
b3         4.95         5.46         .195         .215         4           c         0.46         0.61         .018         .024           c1         0.41         0.56         .016         .022         7           c2         0.46         0.89         .018         .035         .0         .035         .0         .035         .0         .035         .0         .003         .0	ь1	0.65	0.79	.025	.031	7
c         0.46         0.61         0.018         0.024           c1         0.41         0.56         0.016         0.022         7           c2         0.46         0.89         0.018         0.035           D         5.97         6.22         .235         .245         6           D1         5.21         -         .205         -         4           E         6.35         6.73         .250         .265         6           E1         4.32         -         1.70         -         4           e         2.29         BSC         .090         BSC           H         9.40         10.41         .370         .410           L         1.40         1.78         .055         .070           L1         2.74         BSC         .108         REF.           L2         0.51         BSC         .020         BSC           L3         0.89         1.27         .035         .050         4           L4         —         1.02         —         .040           L5         1.14         1.52         .045         .060         3           Ø	b2	0.76	1,14	.030	.045	
c1         0.41         0.56         .016         .022         7           c2         0.46         0.89         .018         .035           D         5.97         6.22         .235         .245         6           D1         5.21         -         .205         -         4           E         6.35         .250         .265         6         6           E1         4.32         -         .170         -         4           e         2.29         BSC         .090         BSC           H         9.40         10.41         .370         .410           L         1.40         1.78         .055         .070           L1         2.74         BSC         .108         REF.           L2         0.51         BSC         .020         BSC           L3         0.89         1.27         .035         .050         4           L4         -         1.02         -         .040           L5         1.14         1.52         .045         .060         3           Ø         0°         10°         0°         10°         10°	b3	4.95	5.46	.195	.215	4
62         0.46         0.89         .018         .035           D         5.97         6.22         .235         .245         6           D1         5.21         -         .205         -         4           E         6.35         6.73         .250         .265         6           E1         4.32         -         .170         -         4           e         2.29         BSC         .090         BSC           H         9.40         10.41         .370         .410           L         1.40         1.78         .055         .070           L1         2.74         BSC         .108         REF.           L2         0.51         BSC         .020         BSC           L3         0.89         1.27         .035         .050         4           L4         -         1.02         -         .040           L5         1.14         1.52         .045         .060         3           Ø         0°         10°         0°         10°         10°           Ø         0°         15°         0°         15°	С	0.46	0.61	.018	.024	
D         5.97         6.22         .235         .245         6           D1         5.21         -         .205         -         4           E         6.35         6.73         .250         .265         6           E1         4.32         -         .170         -         4           e         2.29         BSC         .090         BSC           H         9.40         10.41         .370         .410           L         1.40         1.78         .055         .070           L1         2.74         BSC         .108         REF.           L2         0.51         BSC         .020         BSC           L3         0.89         1.27         .035         .050         4           L4         -         1.02         -         .040           L5         1.14         1.52         .045         .060         3           Ø         0°         10°         0°         10°         10°           Ø1         0°         15°         0°         15°         0°	c1	0.41	0.56	.016	.022	7
D1   S.21   −   .205   −   4     E   6.35   6.73   .250   .265   6     E1   4.32   −   .170   −   4     e   2.29   BSC   .090   BSC     H   9.40   10.41   .370   .410     L   1.40   1.78   .055   .070     L1   2.74   BSC   .025   BSC     L2   0.51   BSC   .020   BSC     L3   0.89   1.27   .035   .050   4     L4   −   1.02   −   .040     L5   1.14   1.52   .045   .060   3     Ø   0°   10°   0°   10°     Ø1   0°   15°   0°   15°	c2	0.46	0.89	.018	.035	
E         6.35         6.73         .250         .265         6           E1         4.32         -         .170         -         4           e         2.29         BSC         .090         BSC           H         9.40         10.41         .370         .410           L         1.40         1.78         .055         .070           L1         2.74         BSC         .108         REF.           L2         0.51         BSC         .020         BSC           L3         0.89         1.27         .035         .050         4           L4         -         1.02         -         .040           L5         1.14         1.52         .045         .060         3           Ø         0°         10°         0°         10°           Ø1         0°         15°         0°         15°	D	5.97	6.22	.235	.245	6
E1         4.32         -         .170         -         4           e         2.29         BSC         .090         BSC           H         9.40         10.41         .370         .410           L         1.40         1.78         .055         .070           L1         2.74         BSC         .020         BSC           L2         0.51         BSC         .020         BSC           L3         0.89         1.27         .035         .050         4           L4         -         1.02         -         .040           L5         1.14         1.52         .045         .060         3           Ø         0°         10°         0°         10°           Ø1         0°         15°         0°         15°	D1	5.21	-	.205	-	4
e 2.29 BSC .090 BSC H 9.40 10.41 .370 .410 L 1.40 1.78 .055 .070 L1 2.74 BSC .020 BSC L3 0.89 1.27 .035 .050 4 L4 − 1.02 − .040 L5 1.14 1.52 .045 .060 3 0 0 10 0 15 0 15	Ε	6.35	6.73	.250	.265	6
H 9.40 10.41 .370 .410 L 1.40 1.78 .055 .070 L1 2.74 BSC .108 REF. L2 0.51 BSC .020 BSC L3 0.89 1.27 .035 .050 4 L4 − 1.02 − .040 L5 1.14 1.52 .045 .060 3 ∅ 0° 10° 0° 10° ∅1 0° 15° 0° 15°	E1	4.32	-	.170	-	4
L         1.40         1.78         .055         .070           L1         2.74         BSC         .108         REF.           L2         0.51         BSC         .020         BSC           L3         0.89         1.27         .035         .050         4           L4         -         1.02         -         .040           L5         1.14         1.52         .045         .060         3           Ø         0°         10°         0°         10°           Ø1         0°         15°         0°         15°	е	2.29	2.29 BSC		BSC	
L1         2.74         BSC         .108         REF.           L2         0.51         BSC         .020         BSC           L3         0.89         1.27         .035         .050         4           L4         -         1.02         -         .040           L5         1.14         1.52         .045         .060         3           Ø         0°         10°         0°         10°           Ø1         0°         15°         0°         15°	Н	9.40	10.41	.370	.410	
L2     0.51 BSC     .020 BSC       L3     0.89     1.27     .035     .050     4       L4     -     1.02     -     .040       L5     1.14     1.52     .045     .060     3       Ø     0°     10°     0°     10°       Ø1     0°     15°     0°     15°	L	1.40	1.78	.055	.070	
L3     0.89     1.27     .035     .050     4       L4     -     1.02     -     .040       L5     1.14     1.52     .045     .060     3       Ø     0°     10°     0°     10°       Ø1     0°     15°     0°     15°	L1	2.74	BSC	.108	REF.	
L4     -     1.02     -     .040       L5     1.14     1.52     .045     .060     3       Ø     0°     10°     0°     10°       Ø1     0°     15°     0°     15°	L2	0.51	BSC	.020 BSC		
L5 1.14 1.52 .045 .060 3 Ø 0' 10' 0' 10' Ø1 0' 15' 0' 15'	L3	0.89	1.27	.035	.050	4
ø 0' 10' 0' 10' ø1 0' 15' 0' 15'	L4	_	1.02		.040	
ø1 0° 15° 0° 15°	L5	1.14	1.52	.045	.060	3
	ø	0,	10*	0,	10°	
ø2 25° 35° 25° 35°	ø1	0,	15*	0,	15*	
	ø2	25°	35*	25*	35°	

#### LEAD ASSIGNMENTS

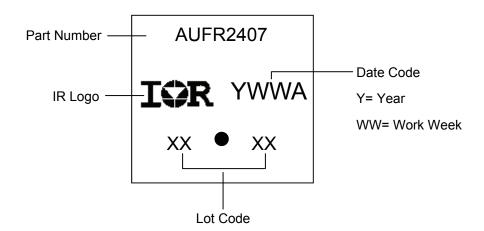
### **HEXFET**

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

#### IGBT & CoPAK

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

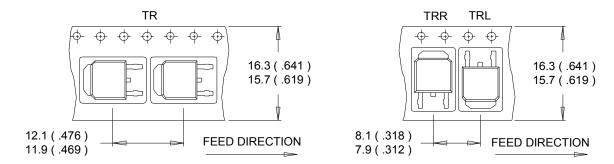
## D-Pak (TO-252AA) Part Marking Information



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

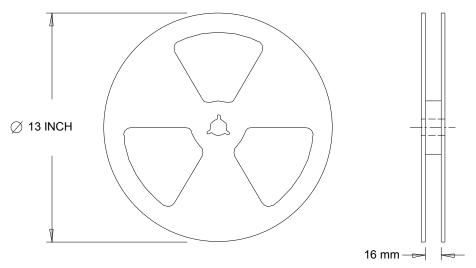


# D-Pak (TO-252AA) Tape & Reel Information (Dimensions are shown in millimeters (inches))



#### NOTES:

- 1. CONTROLLING DIMENSION: MILLIMETER.
- 2. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS (INCHES).
- 3. OUTLINE CONFORMS TO EIA-481 & EIA-541.



# NOTES:

1. OUTLINE CONFORMS TO EIA-481.

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>



#### **Qualification Information**

		Automotive					
			(per AEC-Q101)				
		Industrial and C	Comments: This part number(s) passed Automotive qualification. Infineon's Industrial and Consumer qualification level is granted by extension of the highe Automotive level.				
Mariatana Carattirita I arad		D-Pak	MCI 4				
Woisture	Moisture Sensitivity Level		MSL1				
	Madaina Madal		Class M4 (+/-500V) <sup>†</sup>				
	Machine Model		AEC-Q101-002				
FOD	Liver on Dady Madel		Class H1C (+/-2000V) <sup>†</sup>				
ESD	Human Body Model	AEC-Q101-001					
	Observed Davis a Madal	Class C5 (+/-2000V) <sup>†</sup>					
	Charged Device Model	AEC-Q101-005					
RoHS Compliant			Yes				

<sup>†</sup> Highest passing voltage.

## **Revision History**

Date	Comments			
11/23/15	Updated datasheet with corporate template			
11/23/13	Corrected ordering table on page 1.			

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