

AUTOMOTIVE GRADE

AUIRFR2407

HEXFET® Power MOSFET

Features

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

Description

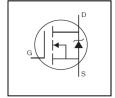
applications.

- 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 _{DSS}		75V
R _{DS(on)}	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

Base worth wombon Baskama Toma		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 _D @ T _C = 25°C	Continuous Drain Current, V _{GS} @ 10V (Silicon Limited)	42	
I _D @ T _C = 100°C	Continuous Drain Current, V _{GS} @ 10V (Silicon Limited)	29	Α
I _{DM}	Pulsed Drain Current ①	170	
P _D @T _C = 25°C	Maximum Power Dissipation	110	W
	Linear Derating Factor	0.71	W/°C
V_{GS}	Gate-to-Source Voltage	± 20	V
E _{AS} Single Pulse Avalanche Energy (Thermally Limited) ②		130	mJ
I _{AR}	Avalanche Current ①	25	Α
E _{AR}	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	

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^{*}Qualification standards can be found at www.infineon.com



Static @ T_J = 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 _D = 1mA
R _{DS(on)}	Static Drain-to-Source On-Resistance		21.8	26.0	mΩ	V _{GS} = 10V, I _D = 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 _{DSS}	Dialii-10-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 _{GS} = 20V
I _{GSS}	Gate-to-Source Reverse Leakage			-200		V _{GS} = -20V

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

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

Diode Characteristics

	Parameter	Min.	Тур.	Max.	Units	Conditions
I _S	Continuous Source Current (Body Diode)			42	_	MOSFET symbol showing the
I _{SM}	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 _{rr}	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 _{on}	Forward Turn-On Time	d Turn-On Time Intrinsic turn-on time is negligible (turn-on is dominated by L _S +L _E			ole (turn-on is dominated by L _S +L _D)	

Notes:

- ① Repetitive rating; pulse width limited by max. junction temperature.
- $^{\circ}$ V_{DD} = 25V, starting T_J = 25°C, L = 0.42mH, R_G = 25 Ω , I_{AS} = 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_{oss eff} is a fixed capacitance that gives the same charging time as C_{oss} while V_{DS} is rising from 0 to 80% V_{DSS}.
- 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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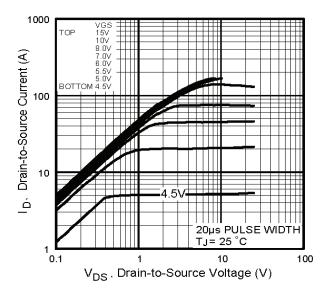


Fig. 1 Typical Output Characteristics

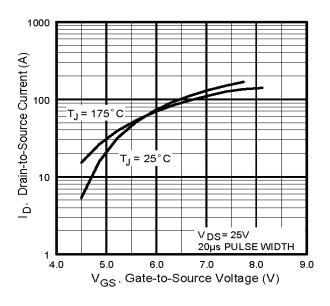


Fig. 3 Typical Transfer Characteristics

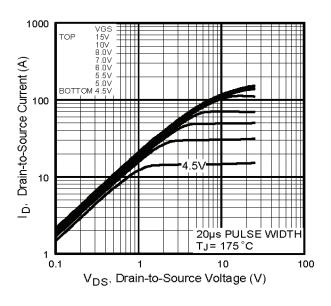


Fig. 2 Typical Output Characteristics

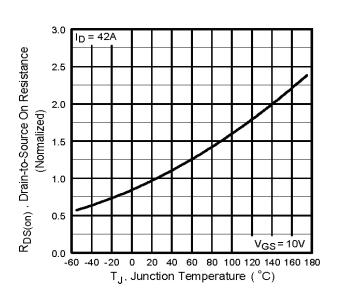


Fig. 4 Normalized On-Resistance Vs. Temperature



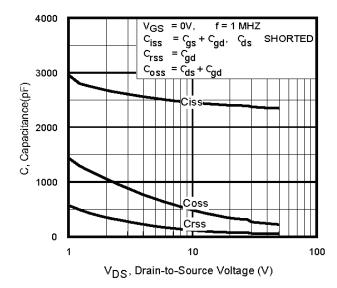


Fig 5. Typical Capacitance vs. Drain-to-Source Voltage

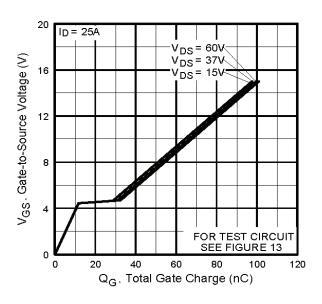


Fig 6. Typical Gate Charge vs. Gate-to-Source Voltage

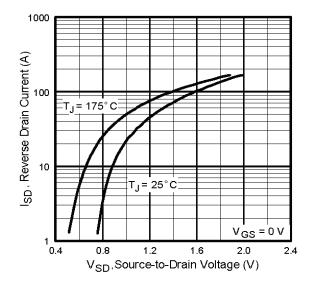


Fig. 7 Typical Source-to-Drain Diode Forward Voltage

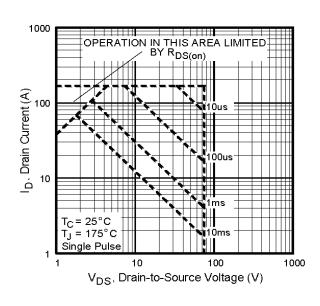


Fig 8. Maximum Safe Operating Area



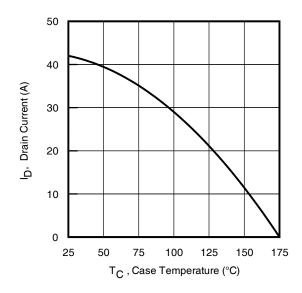


Fig 9. Maximum Drain Current Vs. Case Temperature

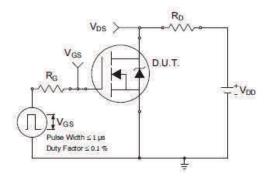


Fig 10a. Switching Time Test Circuit

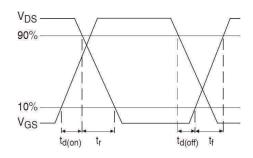


Fig 10b. Switching Time Waveforms

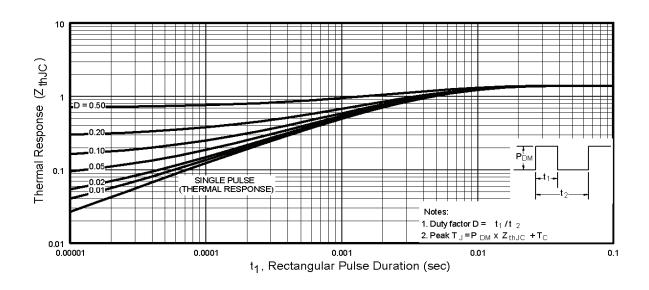


Fig 11. Maximum Effective Transient Thermal Impedance, Junction-to-Case



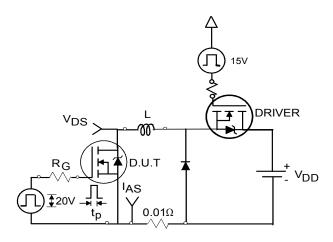


Fig 12a. Unclamped Inductive Test Circuit

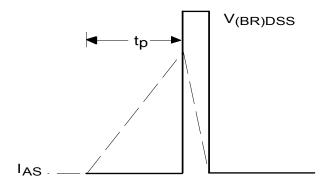


Fig 12b. Unclamped Inductive Waveforms

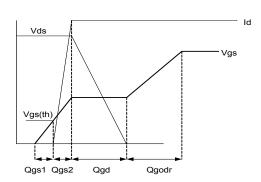


Fig 13a. Gate Charge Waveform

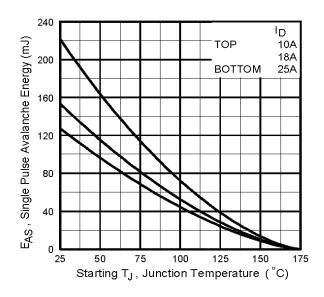


Fig 12c. Maximum Avalanche Energy vs. Drain Current

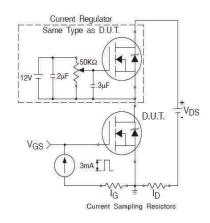
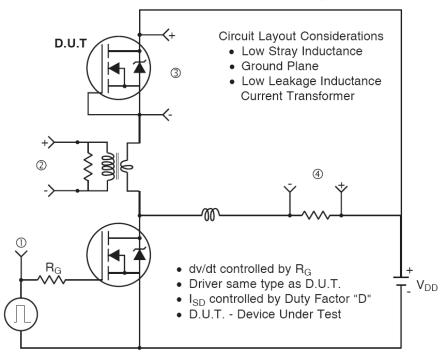


Fig 13b. Gate Charge Test Circuit

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Peak Diode Recovery dv/dt Test Circuit



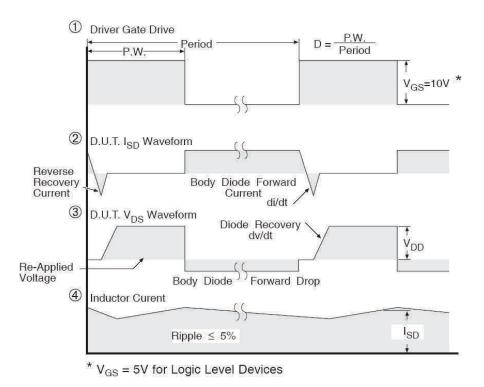
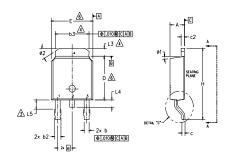


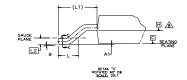
Fig 14. Peak Diode Recovery dv/dt Test Circuit for N-Channel HEXFET® Power MOSFETs

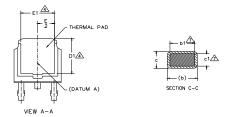


D-Pak (TO-252AA) Package Outline (Dimensions are shown in millimeters (inches))









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 7 c2 0.46 0.89 .018 .035 6 7 6.22 .235 .245 6 6 D1 5.21 — .205 — 4	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 1.195 .215 4 c 0.46 0.61 .018 .024 c1 0.41 0.56 .016 .022 7 c2 0.46 0.89 .018 .035 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 .035 .0035 .0035 .0035 .000 <	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	BSC	.090	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

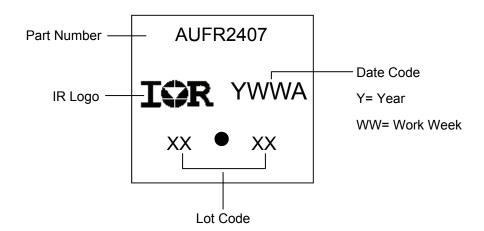
HEXFET

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

IGBT & CoPAK

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

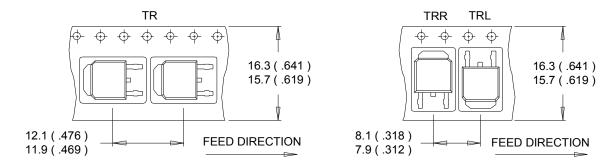
D-Pak (TO-252AA) Part Marking Information



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

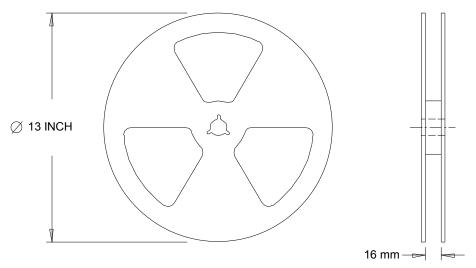


D-Pak (TO-252AA) Tape & Reel Information (Dimensions are shown in millimeters (inches))



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 http://www.irf.com/package/



Qualification Information

	ion inioniation						
		Automotive					
			(per AEC-Q101)				
		Industrial and C	Comments: This part number(s) passed Automotive qualification. Infineon's ndustrial and Consumer qualification level is granted by extension of the higher Automotive level.				
Moisture Sensitivity Level		D-Pak	MSL1				
		I-Pak	WISLI				
	Machine Model		Class M4 (+/-500V) [†]				
	Macrime Moder		AEC-Q101-002				
FOD	Liveran Dady Madal		Class H1C (+/-2000V) [†]				
ESD	Human Body Model	AEC-Q101-001					
	Charried Davis Madel	Class C5 (+/-2000V) [†]					
	Charged Device Model	AEC-Q101-005					
RoHS Compliant		Yes					

[†] Highest passing voltage.

Revision History

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

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