

AUTOMOTIVE GRADE

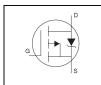
AUIRFR5305 AUIRFU5305

Features

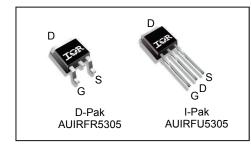
- Advanced Planar Technology
- Low On-Resistance
- Dynamic dv/dt Rating
- 175°C Operating Temperature
- Fast Switching
- Fully Avalanche Rated
- Repetitive Avalanche Allowed up to Tjmax
- · Lead-Free, RoHS Compliant
- Automotive Qualified *



Specifically designed for Automotive applications, this Cellular Planar design of HEXFET® Power MOSFETs utilizes the latest 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 reliable device for use in Automotive and a wide variety of other applications.



V _{DSS}		-55V
R _{DS(on)}	max.	0.065Ω
I _D		-31A



G	D	S
Gate	Drain	Source

Base part number Dockers Type		Standard Pack		Ordershie Bert Number
Base part number	Package Type	Form	Quantity	Orderable Part Number
AUIRFU5305	I-Pak	Tube	75	AUIRFU5305
ALUDEDESOE	D. Dok	Tube	75	AUIRFR5305
AUIRFR5305	D-Pak	Tape and Reel Left	3000	AUIRFR5305TRL

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	-31	
I _D @ T _C = 100°C	Continuous Drain Current, V _{GS} @ -10V	-22	Α
I _{DM}	Pulsed Drain Current ① ⑥	-110	
$P_D @ T_C = 25^{\circ}C$	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) @6	280	mJ
I _{AR}	Avalanche Current ①⑥	-16	Α
E _{AR}	Repetitive Avalanche Energy ①	11	mJ
dv/dt	Peak Diode Recovery dv/dt36	-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
$R_{\theta JC}$	Junction-to-Case		1.4	
$R_{\theta JA}$	Junction-to-Ambient (PCB Mount) ⑦		50	°C/W
$R_{\theta JA}$	Junction-to-Ambient ®		110	

HEXFET® is a registered trademark of Infineon.

^{*}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	-55			V	$V_{GS} = 0V, I_D = -250\mu A$
$\Delta V_{(BR)DSS}/\Delta T_J$	Breakdown Voltage Temp. Coefficient		-0.034		V/°C	Reference to 25°C, I _D = -1mA
R _{DS(on)}	Static Drain-to-Source On-Resistance			0.065	Ω	V _{GS} = -10V, I _D = -16A 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	8.0			S	$V_{DS} = -25V, I_{D} = -16A$ ©
ı	Drain-to-Source Leakage Current			-25	μA	$V_{DS} = -55 \text{ V}, V_{GS} = 0 \text{ V}$
I _{DSS}	Dialii-to-Source Leakage Current			-250	μΑ	$V_{DS} = -44V, V_{GS} = 0V, T_{J} = 150^{\circ}C$
	Gate-to-Source Forward Leakage			-100	- Δ	$V_{GS} = -20V$
I _{GSS}	Gate-to-Source Reverse Leakage			100	nA	$V_{GS} = 20V$

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

Q_q	Total Gate Charge	 	63		I _D = -16A
Q_{gs}	Gate-to-Source Charge	 	13	nC	$V_{DS} = -44V$
Q_{gd}	Gate-to-Drain Charge	 	29		V _{GS} = -10V, See Fig 6 and 13 ⊕ ⊚
$t_{d(on)}$	Turn-On Delay Time	 14			$V_{DD} = -28V$
t _r	Rise Time	 66		20	I _D = -16A
$t_{d(off)}$	Turn-Off Delay Time	 39		ns	$R_G = 6.8\Omega$
t _f	Fall Time	 63			R _D = 1.6Ω, See Fig 10 ④ ⑥
L_D	Internal Drain Inductance	 4.5			Between lead, 6mm (0.25in.)
Ls	Internal Source Inductance	 7.5			from package and center of die contact
C _{iss}	Input Capacitance	 1200			$V_{GS} = 0V$
C _{oss}	Output Capacitance	 520		pF	V _{DS} = -25V
C _{rss}	Reverse Transfer Capacitance	 250			f = 1.0MHz, See Fig. 5®

Diode Characteristics

	Parameter	Min.	Тур.	Max.	Units	Conditions
I _S	Continuous Source Current (Body Diode)			-31	_	MOSFET symbol showing the
I _{SM}	Pulsed Source Current (Body Diode) ①			-110		integral reverse p-n junction diode.
V_{SD}	Diode Forward Voltage			-1.3	V	$T_J = 25^{\circ}C, I_S = -16A, V_{GS} = 0V $ ④
t _{rr}	Reverse Recovery Time		71	110	ns	$T_J = 25^{\circ}C$, $I_F = -16A$
Q_{rr}	Reverse Recovery Charge		170	250	nC	di/dt = 100A/μs ④⑥

Notes:

- ① Repetitive rating; pulse width limited by max. junction temperature. (See fig. 11)
- $^{\circ}$ V_{DD} = -25V, starting T_J = 25°C, L = 2.1mH, R_G = 25 Ω , I_{AS} = -16A. (See Fig.12)
- $\exists \quad I_{SD} \leq \text{-16A, di/dt} \leq \text{-280A/} \mu s, \ V_{DD} \leq V_{(BR)DSS}, \ T_J \leq 175^{\circ}C.$
- 4 Pulse width $\leq 300 \mu s$; duty cycle $\leq 2\%$.
- ⑤ This is applied for I-PAK, L_S of D-PAK is measured between lead and center of die contact .
- 6 Uses IRF5305 data and test conditions.
- When mounted on 1" square PCB (FR-4 or G-10 Material). For recommended footprint and soldering techniques refer to application note #AN-994

Uses typical socket mount.



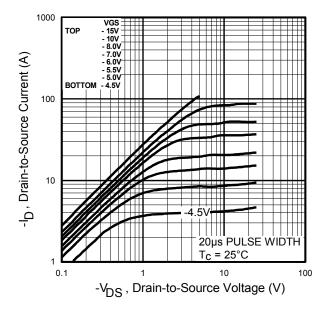


Fig. 1 Typical Output Characteristics

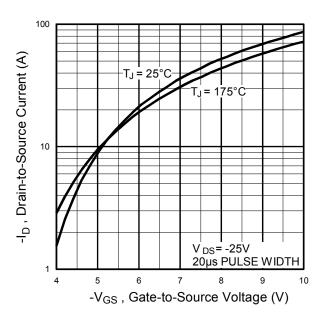


Fig. 3 Typical Transfer Characteristics

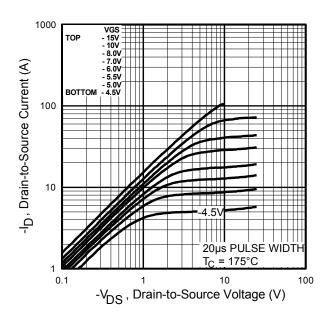


Fig. 2 Typical Output Characteristics

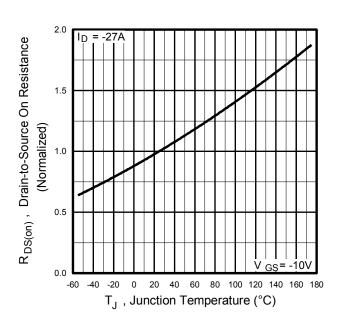


Fig. 4 Normalized On-Resistance vs. Temperature



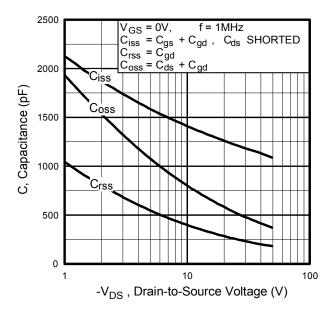


Fig 5. Typical Capacitance vs. Drain-to-Source Voltage

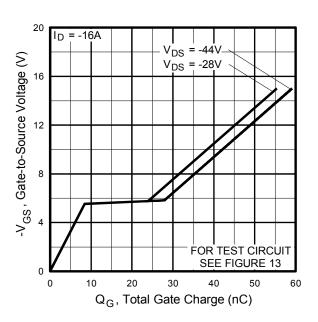


Fig 6. Typical Gate Charge vs. Gate-to-Source Voltage

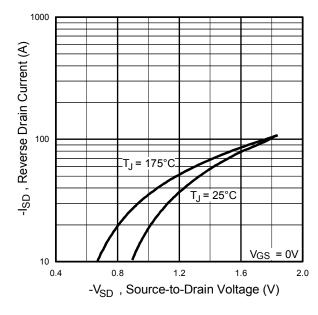


Fig. 7 Typical Source-to-Drain Diode Forward Voltage

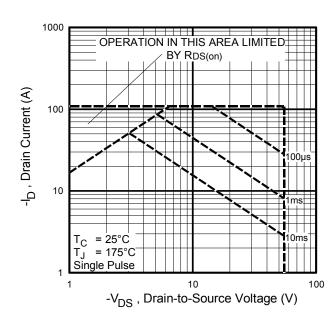


Fig 8. Maximum Safe Operating Area



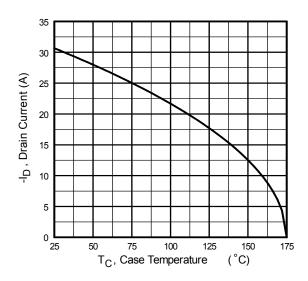


Fig 9. Maximum Drain Current vs. Case Temperature

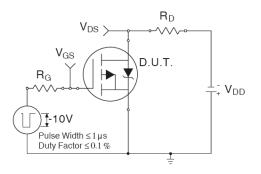


Fig 10a. Switching Time Test Circuit

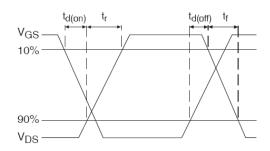


Fig 10b. Switching Time Waveforms

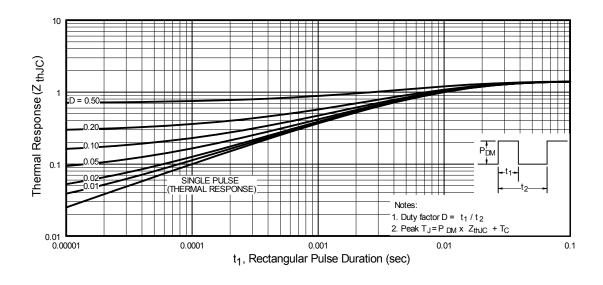


Fig 11. Maximum Effective Transient Thermal Impedance, Junction-to-Case



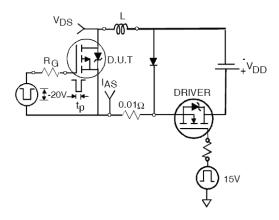


Fig 12a. Unclamped Inductive Test Circuit

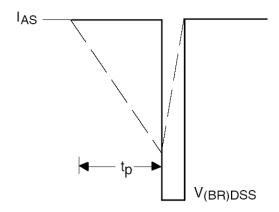


Fig 12b. Unclamped Inductive Waveforms

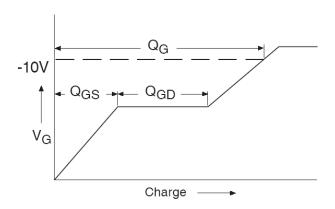


Fig 13a. Gate Charge Waveform

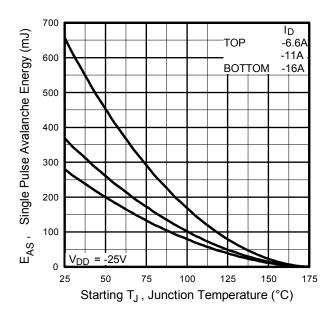


Fig 12c. Maximum Avalanche Energy vs. Drain Current

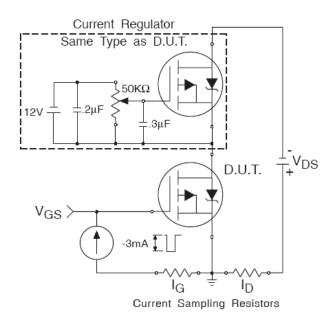
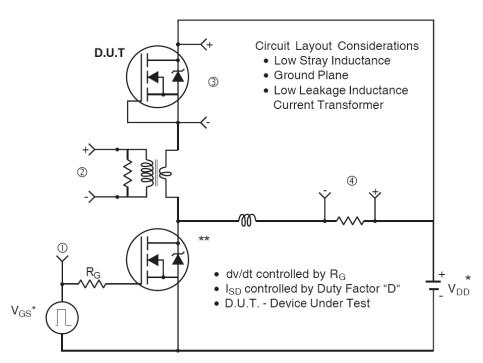


Fig 13b. Gate Charge Test Circuit

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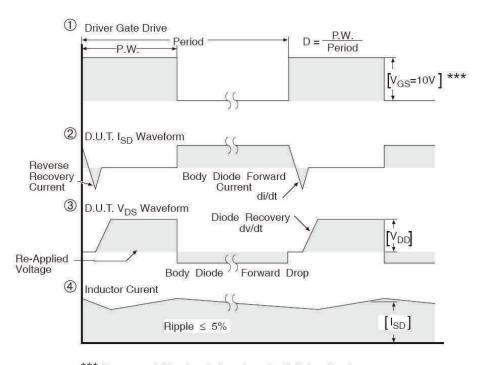


Peak Diode Recovery dv/dt Test Circuit



^{*} Reverse Polarity for P-Channel

^{**} Use P-Channel Driver for P-Channel Measurements



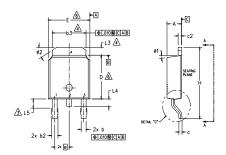
*** V_{GS} = 5.0V for Logic Level and 3V Drive Devices

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

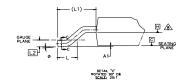
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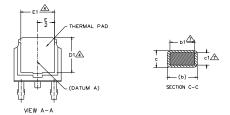


D-Pak (TO-252AA) Package Outline (Dimensions are shown in millimeters (inches))









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 Y M B O C C C C C C C C C C C C C C C C C C	_						
B O L MINLIMETERS INCHES T E S E S E S E S E S E S E S E S E S E		DIMENSIONS					
A 2.18 2.39 .086 .094 A1 - 0.13005 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 c1 0.41 0.56 .016 .022 7 c2 0.46 0.89 .018 .035 D 5.97 6.22 .235 .245 6 D1 5.21205 - 4 E 6.35 6.73 .250 .265 6 E1 4.32170 - 4 E 6.35 6.73 .250 .265 E1 4.32170 - 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 L4102040 L5 1.14 1.52 .045 .060 3 Ø 0° 10° 0° 10° Ø1 0° 15° 0° 15°	В	MILLIM	ETERS	INC	INCHES		
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 1.108 REF .020 BSC L2 0.51 BSC .020 BSC		MIN.	MAX.	MIN.	MAX.	E S	
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 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 2.29 BSC .090 BSC H 9.40 10.41 .370 .410 L 1.140 1.78 .055 .070 L1 0.51 BSC .020 BSC L3 <td>Α</td> <td>2.18</td> <td>2.39</td> <td>.086</td> <td>.094</td> <td></td>	Α	2.18	2.39	.086	.094		
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 0 0 0.35 6 0 1 0 0 0 0 0 0 0 0 <t< td=""><td>A1</td><td>-</td><td>0.13</td><td>-</td><td>.005</td><td></td></t<>	A1	-	0.13	-	.005		
b2 0.76 1.14 0.30 0.45 b3 4.95 5.46 .195 .215 4 c 0.46 0.61 .018 .024 7 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 .108 REF. L2 0.51 BSC .020 BSC L3 0.89 1.27 .035 .050 4	b	0.64	0.89	.025	.035		
b3	ь1	0.65	0.79	.025	.031	7	
c 0.46 0.61 .018 .024 c1 0.41 0.56 .016 .022 7 c2 0.46 0.89 .018 .035 7 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	b2	0.76	1.14	.030	.045		
c1 0.41 0.56 .016 .022 7 c2 0.46 0.89 .018 .035 8 D 5.97 6.22 .235 .245 6 D1 5.21 - .205 - 4 E 6.35 .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	b3	4.95	5.46	.195	.215	4	
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 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° Ø 0° 15° 0° 15°	С	0.46	0.61	.018	.024		
D 5.97 6.22 .235 .245 6	c1	0.41	0.56	.016	.022	7	
D1	c2	0.46	0.89	.018	.035		
E 6.35 6.73 .250 .265 6 E1 4.32170 - 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 - 1.02040 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 .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°	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 .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° 0° 15° Ø1 0° 15° 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 - 1.02040 L5 1.14 1.52 .045 .060 3 Ø 0° 10° 0° 10° Ø1 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 - 1.02040 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	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 .040 .045 .060 3 Ø 0° 10° 0° 10° 10° 9 15°	L	1.40	1.78	.055	.070		
L3 0.89 1.27 .035 .050 4 L4 - 1.02040 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° ø 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

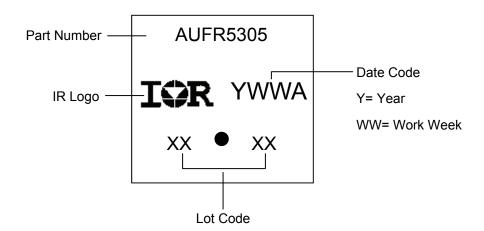
HEXFET

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

IGBT & CoPAK

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

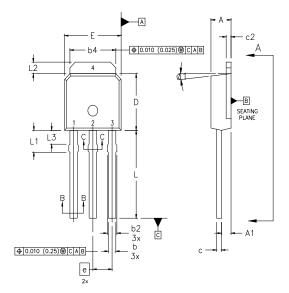
D-Pak (TO-252AA) Part Marking Information

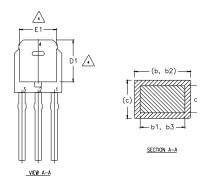


Note: For the most current drawing please refer to IR website at http://www.irf.com/package/



I-Pak (TO-251AA) Package Outline (Dimensions are shown in millimeters (inches)





NOTES:

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

 DIMENSION D & E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.005" (0.127) PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY.
- THERMAL PAD CONTOUR OPTION WITHIN DIMENSION 64, L2, E1 & D1.
 - LEAD DIMENSION UNCONTROLLED IN L3.
- DIMENSION 61, 63 APPLY TO BASE METAL ONLY.
 - OUTLINE CONFORMS TO JEDEC OUTLINE TO-251AA.

DIMENSIONS

CONTROLLING DIMENSION: INCHES.

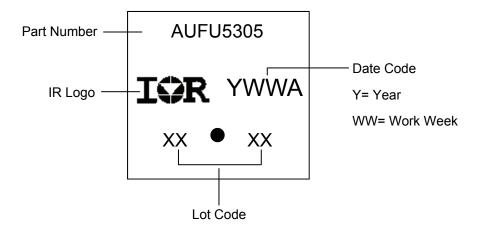
LEAD ASSIGNMENTS

L	1E	X	F	F	т
- 1	ш	Λ		L	н

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

SYMBOL	MILLIM	IETERS	INCHES		
	MIN.	MAX.	MIN.	MAX.	NOTES
A	2.18	2.39	0.086	.094	
A1	0.89	1.14	0.035	0.045	
b	0.64	0.89	0.025	0.035	
ь1	0.64	0.79	0.025	0.031	4
b2	0.76	1.14	0.030	0.045	
b3	0.76	1.04	0.030	0.041	
b4	5.00	5.46	0.195	0.215	4
С	0.46	0.61	0.018	0.024	
c1	0.41	0.56	0.016	0.022	
c2	.046	0.86	0.018	0.035	
D	5.97	6.22	0.235	0.245	3, 4
D1	5.21	-	0.205	-	4
E	6.35	6.73	0.250	0.265	3, 4
E1	4.32	-	0.170	-	4
e	2.	29	0.090	BSC	
L	8.89	9.60	0.350	0.380	
L1	1.91	2.29	0.075	0.090	
L2	0.89	1.27	0.035	0.050	4
L3	1.14	1.52	0.045	0.060	5
ø1	0.	15*	0,	15*	

I-Pak (TO-251AA) Part Marking Information

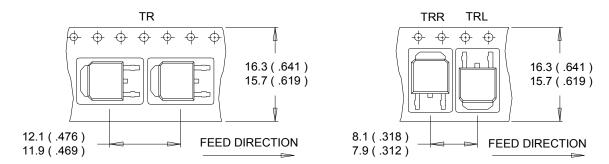


Note: For the most current drawing please refer to IR website at http://www.irf.com/package/

2015-10-12

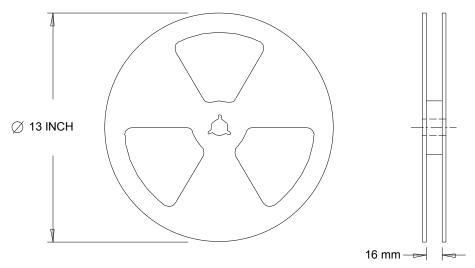


D-Pak (TO-252AA) Tape & Reel Information (Dimensions are shown in millimeters (inches))



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

<u> </u>	uon muunun				
		Automotive (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.			
		D-Pak	MCI 4		
Woisture	Moisture Sensitivity Level		MSL1		
	Machine Madel	Class M2 (+/- 200V) [†]			
	Machine Model		AEC-Q101-002		
FOD	Livers on Dady Mada	Class H1B (+/- 1000V) [†]			
ESD	Human Body Model	AEC-Q101-001			
	Observed Basics Madel	Class C5 (+/- 1125V) [†]			
Charge	Charged Device Model	AEC-Q101-005			
RoHS Compliant		Yes			
		1			

[†] Highest passing voltage.

Revision History

Date	Comments
10/12/2015	Updated datasheet with corporate template
	Corrected ordering table on page 1.

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