

AUIRLR2908

HEXFET® Power MOSFET

Features

- Advanced Planar Technology
- Logic-Level Gate Drive
- Low On-Resistance
- 175°C Operating Temperature
- Fast Switching

Description

applications

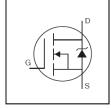
- Fully Avalanche Rated
- Repetitive Avalanche Allowed up to Timax

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

- Lead-Free, RoHS Compliant
- Automotive Qualified *



V _{DSS}		80V
R _{DS(on)}	typ.	22.5m $Ω$
	max.	28m Ω
D (Silicon Limited)		39A®
D (Package Limited)		30A

D-Pak

G	D	S
Gate	Drain	Source

AUIRLR2908

Page part number	Pookogo Typo	Standard Pack		Orderable Part Number	
Base part number	Package Type	Form	Quantity	Orderable Part Number	
ALUDI DOGG	D. Dok	Tube	75	AUIRLR2908	
AUIRLR2908	D-Pak	Tape and Reel Left	3000	AUIRLR2908TRL	

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)	399	
I _D @ T _C = 100°C	Continuous Drain Current, V _{GS} @ 10V (Silicon Limited)	28	A
I _D @ T _C = 25°C	Continuous Drain Current, V _{GS} @ 10V (Package Limited)	30	
I _{DM}	Pulsed Drain Current ①	150	
P _D @T _C = 25°C	Maximum Power Dissipation	120	W
	Linear Derating Factor	0.77	W/°C
V_{GS}	Gate-to-Source Voltage	± 16	V
E _{AS}	Single Pulse Avalanche Energy (Thermally Limited) ②	180	
E _{AS} (Tested)	Single Pulse Avalanche Energy Tested Value ⑦	250	- mJ
I _{AR}	Avalanche Current ①	See Fig.15,16, 12a, 12b	Α
E _{AR}	Repetitive Avalanche Energy ®		mJ
dv/dt	Peak Diode Recovery dv/dt ③	2.3	V/ns
T_J	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	Symbol Parameter		Max.	Units
$R_{\theta JC}$	Junction-to-Case ®		1.3	
$R_{\theta JA}$	Junction-to-Ambient (PCB Mount) ®		50	°C/W
$R_{\theta JA}$	Junction-to-Ambient		110	

HEXFET® is a registered trademark of Infineon.

2017-10-09

^{*}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	80			V	$V_{GS} = 0V, I_D = 250\mu A$
$\Delta V_{(BR)DSS}/\Delta T_{J}$	Breakdown Voltage Temp. Coefficient		0.085		V/°C	Reference to 25°C, I _D = 1mA
D	Static Prain to Source On Registance		22.5	28		$V_{GS} = 10V, I_D = 23A $ ④
$R_{DS(on)}$	Static Drain-to-Source On-Resistance		25	30	mΩ	$V_{GS} = 4.5V, I_D = 20A$ ④
$V_{GS(th)}$	Gate Threshold Voltage	1.0		2.5	V	$V_{DS} = V_{GS}$, $I_D = 250\mu A$
gfs	Forward Trans conductance	35			S	$V_{DS} = 25V, I_D = 23A $ ④
ı	Drain-to-Source Leakage Current			20	μA	$V_{DS} = 80V, V_{GS} = 0V$
IDSS	Drain-to-Source Leakage Current			250	μΑ	$V_{DS} = 80V, V_{GS} = 0V, T_{J} = 125^{\circ}C$
	Gate-to-Source Forward Leakage			200	nA	V _{GS} = 16V
I _{GSS}	Gate-to-Source Reverse Leakage			-200	ПА	V _{GS} = -16V

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

Q_g	Total Gate Charge	 22	33		I _D = 23A
Q_{gs}	Gate-to-Source Charge	 6.0	9.1	nC	V _{DS} = 64V
Q_{gd}	Gate-to-Drain Charge	 11	17		V _{GS} = 4.5V@
$t_{d(on)}$	Turn-On Delay Time	 12			$V_{DD} = 40V$
t _r	Rise Time	 95		no	$I_D = 23A$
$t_{d(off)}$	Turn-Off Delay Time	 36		ns	$R_G = 8.3\Omega$
t _f	Fall Time	 55			V _{GS} = 4.5V@
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	 1890			$V_{GS} = 0V$
Coss	Output Capacitance	 260			V _{DS} = 25V
C_{rss}	Reverse Transfer Capacitance	 35		рF	f = 1.0MHz
C_{oss}	Output Capacitance	 1920		ρг	$V_{GS} = 0V$, $V_{DS} = 1.0V$ $f = 1.0MHz$
C_{oss}	Output Capacitance	 170			$V_{GS} = 0V$, $V_{DS} = 64V$ $f = 1.0MHz$
Coss eff.	Effective Output Capacitance	 310			V_{GS} = 0V, V_{DS} = 0V to 64V

Diode Characteristics

	Parameter	Min.	Тур.	Max.	Units	Conditions
I _S	Continuous Source Current (Body Diode)			399		MOSFET symbol showing the
I _{SM}	Pulsed Source Current (Body Diode) ①			150		integral reverse p-n junction diode.
V_{SD}	Diode Forward Voltage			1.3	V	$T_J = 25^{\circ}C, I_S = 23A, V_{GS} = 0V $ ④
t _{rr}	Reverse Recovery Time		75	110	ns	$T_J = 25^{\circ}C$, $I_F = 23A$, $V_{DD} = 25V$
Q_{rr}	Reverse Recovery Charge		210	310	nC	di/dt = 100A/μs ④
t _{on}	Forward Turn-On Time	Intrinsio	turn-or	time is	negligil	ole (turn-on is dominated by L _S +L _D)

Notes:

- ① Repetitive rating; pulse width limited by max. junction temperature. (See fig. 11)
- $\label{eq:local_local_local_local} \ensuremath{\Im} \quad I_{SD} \leq 23A, \ di/dt \leq 400A/\mu s, \ V_{DD} \leq V_{(BR)DSS}, \ T_J \leq 175^{\circ}C.$
- \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}
- \odot This value determined from sample failure population, starting T_J = 25°C, L = 0.71mH, R_G = 25 Ω , I_{AS} = 23A, V_{GS} =10V.
- When mounted on 1" square PCB (FR-4 or G-10 Material). For recommended footprint and soldering techniques refer to application note #AN-994
- ® R_θ is measured at T_J approximately 90°C.

2017-10-09



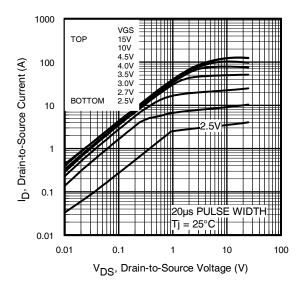


Fig. 1 Typical Output Characteristics

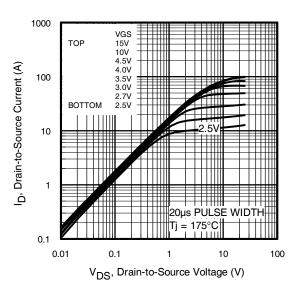


Fig. 2 Typical Output Characteristics

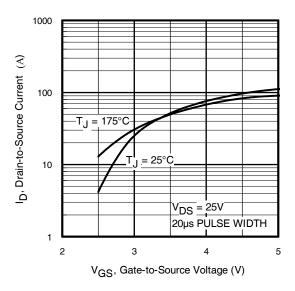


Fig. 3 Typical Transfer Characteristics

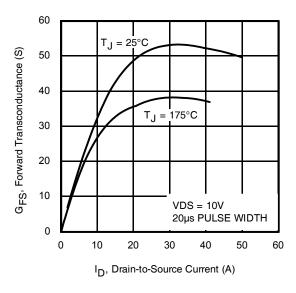


Fig. 4 Typical Forward Trans conductance Vs. Drain Current



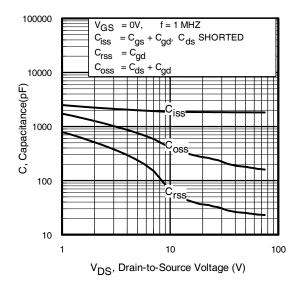


Fig 5. Typical Capacitance vs. Drain-to-Source Voltage

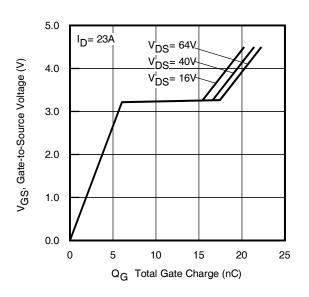


Fig 6. Typical Gate Charge vs. Gate-to-Source Voltage

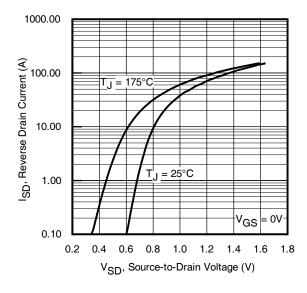


Fig. 7 Typical Source-to-Drain Diode Forward Voltage

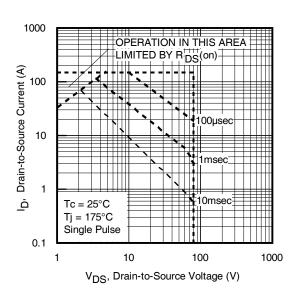
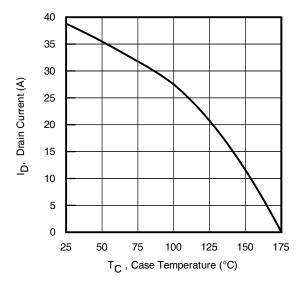


Fig 8. Maximum Safe Operating Area

4





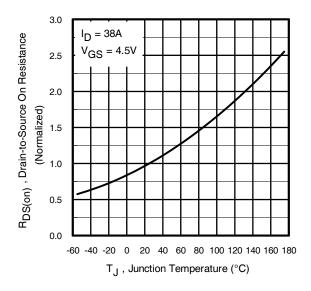


Fig 9. Maximum Drain Current Vs. Case Temperature

Fig 10. Normalized On-Resistance Vs. Temperature

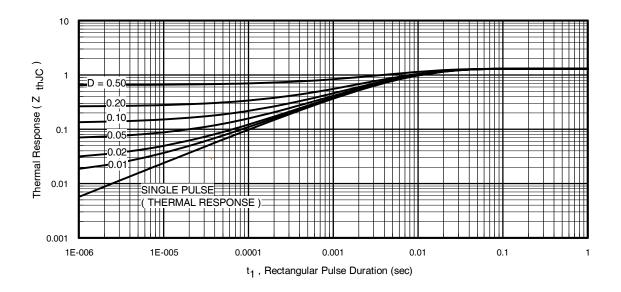


Fig 11. Maximum Effective Transient Thermal Impedance, Junction-to-Case



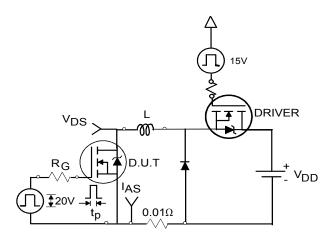


Fig 12a. Unclamped Inductive Test Circuit

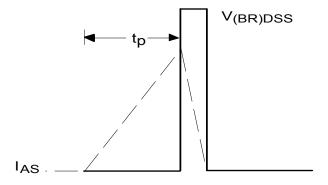


Fig 12b. Unclamped Inductive Waveforms

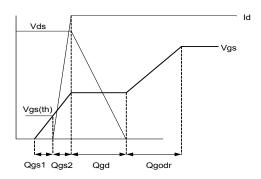


Fig 13a. Gate Charge Waveform

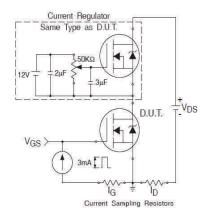


Fig 13b. Gate Charge Test Circuit

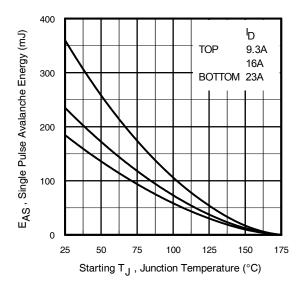


Fig 12c. Maximum Avalanche Energy vs. Drain Current

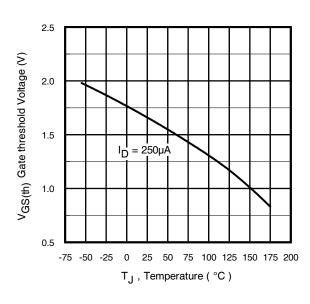


Fig 14. Threshold Voltage Vs. Temperature



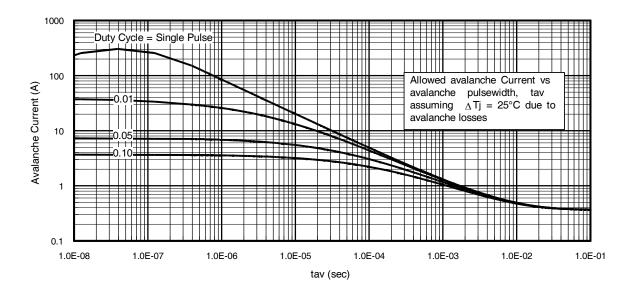


Fig 15. Typical Avalanche Current Vs. Pulse width

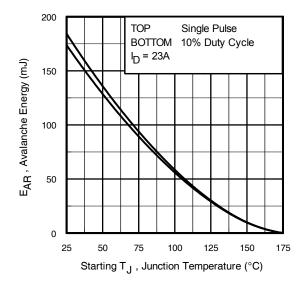


Fig 16. Maximum Avalanche Energy Vs. Temperature

Notes on Repetitive Avalanche Curves , Figures 15, 16:

(For further info, see AN-1005 at www.infineon.com)

- Avalanche failures assumption:
 Purely a thermal phenomenon and failure occurs at a temperature far in excess of T_{imax}. This is validated for every part type.
- 2. Safe operation in Avalanche is allowed as long as T_{jmax} is not exceeded.
- 3. Equation below based on circuit and waveforms shown in Figures 12a, 12b.
- 4. PD (ave) = Average power dissipation per single avalanche pulse.
- 5. BV = Rated breakdown voltage (1.3 factor accounts for voltage increase during avalanche).
- 6. lav = Allowable avalanche current.
- 7. ΔT = Allowable rise in junction temperature, not to exceed T_{jmax} (assumed as 25°C in Figure 15, 16).

tav = Average time in avalanche.

D = Duty cycle in avalanche = tav ·f

ZthJC(D, tav) = Transient thermal resistance, see Figures 13)

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



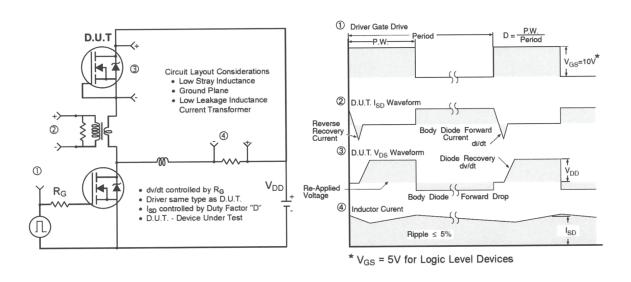
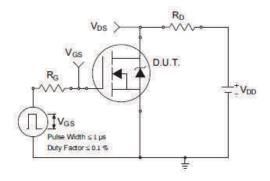
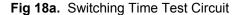


Fig 17. Peak Diode Recovery dv/dt Test Circuit for N-Channel HEXFET® Power MOSFETs





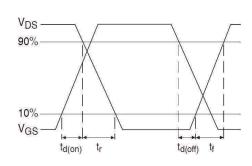
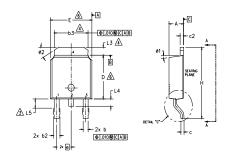


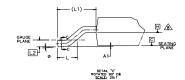
Fig 18b. Switching Time Waveforms

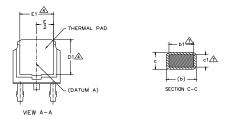


D-Pak (TO-252AA) Package Outline (Dimensions are shown in millimeters (inches))









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.
- bildension 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.
- 9.- OUTLINE CONFORMS TO JEDEC OUTLINE TO-252AA.

S Y M B DIMENSIONS N O T E M B B B B B B B B B B B B B B B B B B B								
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 .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 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 L4102040 L5 1.14 1.52 .045 .060 3 Ø 0° 10° 0° 10° Ø1 0° 15° 0° 15°	В	MILLIM	ETERS	INC	HES	Ť		
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 .108 REF.		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 7 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 2.74 BSC .108 REF. <tr< td=""><td>Α</td><td>2.18</td><td>2.39</td><td>.086</td><td>.094</td><td></td></tr<>	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 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 2.74 BSC .108 REF. L2 0.51 BSC .020 BSC L3 0.89 1.27 .035 .050 4 <td>A1</td> <td>-</td> <td>0.13</td> <td>-</td> <td>.005</td> <td></td>	A1	-	0.13	-	.005			
b2 0.76 1.14 0.30 0.045 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 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 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 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 6 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° 10° 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° 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° Ø 0° 15° 0° 15° 0° 15°	Ε	6.35	6.73	.250	.265	6		
H 9.40 10.41 .370 .410	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° 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 .045 .060 3 Ø 0° 10° 0° 10° 9 15° 15° 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

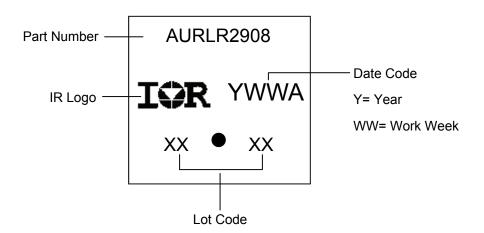
HEXFET

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

IGBT & CoPAK

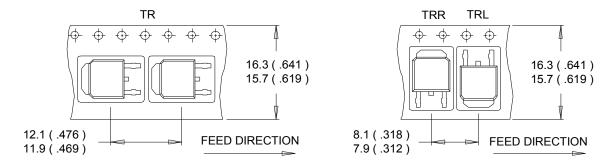
- 1.- GATE
- 2.- COLLECTOR
- 3.- EMITTER
- 4.- COLLECTOR

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



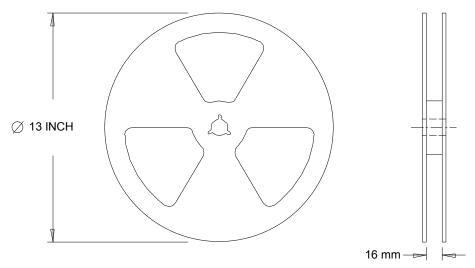


D-Pak (TO-252AA) Tape & Reel Information (Dimensions are shown in millimeters (inches))



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.



Qualification Information

		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.				
Moisture Sensitivity Level		D-Pak	MSL1			
	Machine Madel	Class M3 (+/- 400V) [†]				
	Machine Model	AEC-Q101-002				
FOR	Livers on Dody Model		Class H1C (+/-1500V) [†]			
ESD	Human Body Model	AEC-Q101-001				
	Observed Device Medal	Class C5 (+/-2000V) [†]				
Charged Device Model		AEC-Q101-005				
RoHS Compliant		Yes				

[†] Highest passing voltage.

Revision History

Date	Comments			
12/11/2015	 Updated datasheet with corporate template Corrected ordering table on page 1. Corrected typo R_{0JA} (PCB mount) from "40°C/W" to "50°C/W" on page 1. 			
10/09/2017	Corrected typo error on part marking on page 9.			

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