

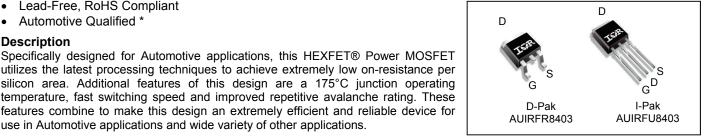
AUTOMOTIVE GRADE

AUIRFR8403 AUIRFU8403

Features

- Advanced Process Technology
- New Ultra Low On-Resistance
- 175°C Operating Temperature
- Fast Switching
- Repetitive Avalanche Allowed up to Timax
- Lead-Free, RoHS Compliant
- Automotive Qualified *

V_{DSS}		40V
R _{DS(on)}	typ.	2.4m Ω
	max.	$3.1 m\Omega$
I _{D (Silicon Lin}	nited)	127A①
D (Package L	imited)	100A



use in Automotive applications and wide variety of other applications. **Applications**

Description

- Electric Power Steering (EPS)
- **Battery Switch**
- Start/Stop Micro Hybrid
- Heavy Loads
- DC-DC Converter

G	D	S
Gate	Drain	Source

Book nort number	Dookogo Tymo	Standard Pack		Orderable Part Number	
Base part number	Package Type	Form	Quantity	Orderable Part Number	
AUIRFU8403	I-Pak	Tube	75	AUIRFU8403	
AUIRFR8403	D. Dak	Tube	75	AUIRFR8403	
AUIRFR0403	D-Pak	Tape and Reel Left	3000	AUIRFR8403TRL	

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)	127①	
I _D @ T _C = 100°C	Continuous Drain Current, V _{GS} @ 10V (Silicon Limited)	90	
I _D @ T _C = 25°C	Continuous Drain Current, V _{GS} @ 10V (Package Limited)	100	A
I _{DM}	Pulsed Drain Current ②	520⑩	
$P_D @ T_C = 25^{\circ}C$	Maximum Power Dissipation	99	W
	Linear Derating Factor	0.66	W/°C
V_{GS}	Gate-to-Source Voltage	± 20	V
TJ	Operating Junction and	-55 to + 175	
T _{STG}	Storage Temperature Range		°C
	Soldering Temperature, for 10 seconds (1.6mm from case)	300	

Avalanche Characteristics

E _{AS}	Single Pulse Avalanche Energy (Thermally Limited) 3	114	m l
E _{AS} (tested)	Single Pulse Avalanche Energy (Tested Limited) 3	148	mJ
I _{AR}	Avalanche Current ②	See Fig. 14, 15, 24a, 24b	Α
E _{AR}	Repetitive Avalanche Energy ②		mJ

Thermal Resistance

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Symbol	Parameter	Тур.	Max.	Units
$R_{ heta JC}$	Junction-to-Case ®		1.52	
$R_{\theta JA}$	Junction-to-Ambient (PCB Mount) ®		50	°C/W
$R_{\theta JA}$	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	40			V	$V_{GS} = 0V, I_D = 250\mu A$
$\Delta V_{(BR)DSS}/\Delta T_J$	Breakdown Voltage Temp. Coefficient		0.03		V/°C	Reference to 25°C, I _D = 5mA ③
R _{DS(on)}	Static Drain-to-Source On-Resistance		2.4	3.1	mΩ	V _{GS} = 10V, I _D = 76A ⑤
$V_{GS(th)}$	Gate Threshold Voltage	2.2	3.0	3.9	V	$V_{DS} = V_{GS}$, $I_D = 100 \mu A$
	Drain to Source Leekage Current			1.0	μA	$V_{DS} = 40V, V_{GS} = 0V$
I _{DSS}	Drain-to-Source Leakage Current			150	μΑ	$V_{DS} = 40V, V_{GS} = 0V, T_{J} = 125^{\circ}C$
	Gate-to-Source Forward Leakage			100	n ^	$V_{GS} = 20V$
I _{GSS}	Gate-to-Source Reverse Leakage			-100	nA	$V_{GS} = -20V$
R_G	Internal Gate Resistance		1.5		Ω	

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

Forward Trans conductance	283			S	$V_{DS} = 10V, I_{D} = 76A$
Total Gate Charge		66	99		I _D = 76A
Gate-to-Source Charge		18		nC	$V_{DS} = 20V$
Gate-to-Drain Charge		22		110	V _{GS} = 10V⑤
Total Gate Charge Sync. (Q _g - Q _{gd})		44			
Turn-On Delay Time		10			$V_{DD} = 26V$
Rise Time		32		20	I _D = 76A
Turn-Off Delay Time		31		115	$R_G = 2.7\Omega$
Fall Time		23			V _{GS} = 10V⑤
Input Capacitance		3171			$V_{GS} = 0V$
Output Capacitance		477			$V_{DS} = 25V$
Reverse Transfer Capacitance		331		pF	f = 1.0MHz, See Fig. 5
Effective Output Capacitance (Energy Related)		573			V_{GS} = 0V, V_{DS} = 0V to 32V \bigcirc
Effective Output Capacitance (Time Related)		681			$V_{GS} = 0V, V_{DS} = 0V \text{ to } 32V $
	Fotal Gate Charge Gate-to-Source Charge Gate-to-Drain Charge Fotal Gate Charge Sync. (Q _g - Q _{gd}) Furn-On Delay Time Rise Time Furn-Off Delay Time Fall Time Input Capacitance Output Capacitance Reverse Transfer Capacitance Effective Output Capacitance (Energy Related)	Fotal Gate Charge Gate-to-Source Charge Gate-to-Drain Charge Fotal Gate Charge Sync. (Qg - Qgd) Furn-On Delay Time Rise Time Furn-Off Delay Time Fall Time nput Capacitance Output Capacitance Reverse Transfer Capacitance (Energy Related) ———————————————————————————————————	Fotal Gate Charge — 66 Gate-to-Source Charge — 18 Gate-to-Drain Charge — 22 Fotal Gate Charge Sync. (Qg - Qgd) — 44 Furn-On Delay Time — 10 Rise Time — 32 Furn-Off Delay Time — 31 Fall Time — 23 nput Capacitance — 3171 Output Capacitance — 477 Reverse Transfer Capacitance — 331 Effective Output Capacitance (Energy Related) — 573	Fotal Gate Charge — 66 99 Gate-to-Source Charge — 18 — Gate-to-Drain Charge — 22 — Fotal Gate Charge Sync. (Qg - Qgd) — 44 — Furn-On Delay Time — 10 — Rise Time — 31 — Furn-Off Delay Time — 31 — Fall Time — 23 — nput Capacitance — 3171 — Dutput Capacitance — 477 — Reverse Transfer Capacitance — 331 — Effective Output Capacitance (Energy Related) — 573 —	Fotal Gate Charge — 66 99 Gate-to-Source Charge — 18 — Gate-to-Drain Charge — 22 — Fotal Gate Charge Sync. (Qg - Qgd) — 44 — Furn-On Delay Time — 10 — Rise Time — 31 — Furn-Off Delay Time — 31 — Fall Time — 23 — nput Capacitance — 3171 — Output Capacitance — 477 — Reverse Transfer Capacitance — 331 — pF Effective Output Capacitance (Energy Related) — 573 —

Diode Characteristics

						T
	Parameter	Min.	Тур.	Max.	Units	Conditions
I _S	Continuous Source Current			127①		MOSFET symbol
'5	(Body Diode)			1270	Α	showing the
	Pulsed Source Current			520⑩		integral reverse
I _{SM}	(Body Diode) ①			3201		p-n junction diode.
V_{SD}	Diode Forward Voltage		0.9	1.3	V	$T_J = 25^{\circ}C, I_S = 76A, V_{GS} = 0V $ §
dv/dt	Peak Diode Recovery dv/dt@		5.1		V/ns	$T_J = 175^{\circ}C, I_S = 76A, V_{DS} = 40V$
t _{rr}	Reverse Recovery Time		25		200	$T_J = 25^{\circ}C$ $V_R = 34V$,
			26		ns	$T_J = 125^{\circ}C$ $I_F = 76A$
Q_{rr}	Reverse Recovery Charge		20		nC	$T_J = 25^{\circ}C$ di/dt = 100A/µs ©
			21		IIC	T _J = 125°C α//αι = 100Α/μs ⑤
I _{RRM}	Reverse Recovery Current		1.2		Α	T _J = 25°C

Notes:

- Calculated continuous current based on maximum allowable junction temperature. Bond wire current limit is 100A by source bonding technology. Note that current limitations arising from heating of the device leads may occur with some lead mounting arrangements. (Refer to AN-1140)
- ② Repetitive rating; pulse width limited by max. junction temperature. (See fig. 11)
- ③ Limited by T_{Jmax} , starting $T_J = 25$ °C, L = 0.039mH, $R_G = 50\Omega$, $I_{AS} = 76$ A, $V_{GS} = 10$ V. Part not recommended for use above this value.
- \P I_{SD} $\leq 76A$, di/dt $\leq 1255A/\mu s$, V_{DD} $\leq V_{(BR)DSS}$, T_J $\leq 175^{\circ}C$.
- ⑤ Pulse width $\leq 400 \mu s$; duty cycle $\leq 2\%$.
- \odot Coss eff. (TR) is a fixed capacitance that gives the same charging time as C_{oss} while V_{DS} is rising from 0 to 80% V_{DSS} .
- © Coss eff. (ER) is a fixed capacitance that gives the same energy as Coss 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
- $^{\circ}$ R_θ is measured at T_J approximately 90°C.
- Pulse drain current is limited by source bonding technology.

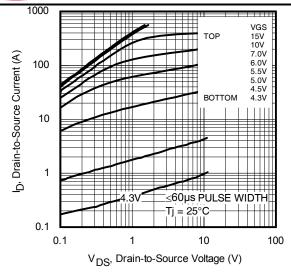


Fig. 1 Typical Output Characteristics

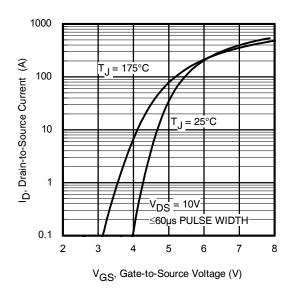


Fig. 3 Typical Transfer Characteristics

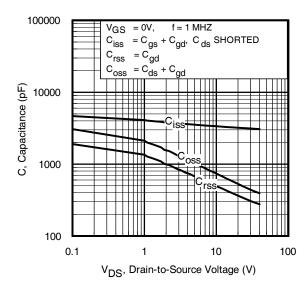


Fig 5. Typical Capacitance vs. Drain-to-Source Voltage

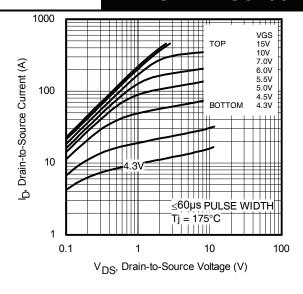


Fig. 2 Typical Output Characteristics

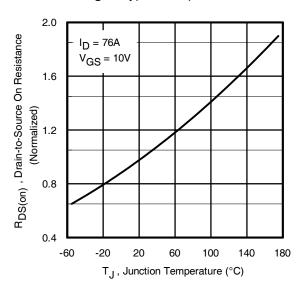


Fig. 4 Normalized On-Resistance vs. Temperature

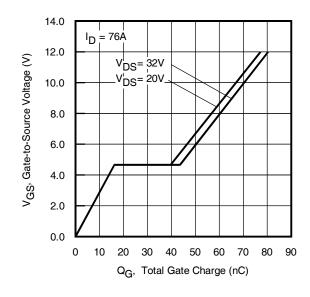
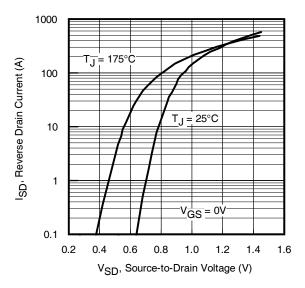


Fig 6. Typical Gate Charge vs. Gate-to-Source Voltage





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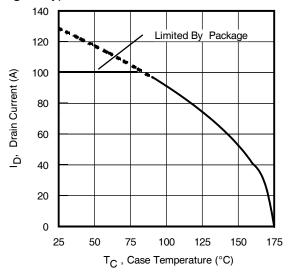
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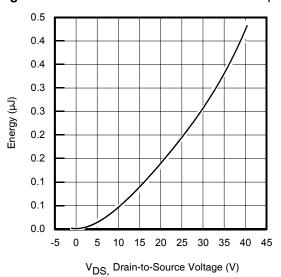
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Fig. 7 Typical Source-to-Drain Diode Forward Voltage



V(BR)DSS, Drain-to-Source Breakdown Voltage (V) Id = 5.0mA49 48 47 46 45 44 43 42 41 40 -60 -20 100 140 180 T_J , Temperature ($^{\circ}C$)

Fig. 9 Maximum Drain Current vs. Case Temperature



500 E_{AS} , Single Pulse Avalanche Energy (mJ) Р TOP 13A 400 24A **BOTTOM** 76A 300 200 100 0 25 50 75 100 125 150 175 Starting T_J , Junction Temperature (°C)

Fig 10. Drain-to-Source Breakdown Voltage

Fig. 11 Typical Coss Stored Energy

Fig 12. Maximum Avalanche Energy vs. Drain Current

Fig 8. Maximum Safe Operating Area



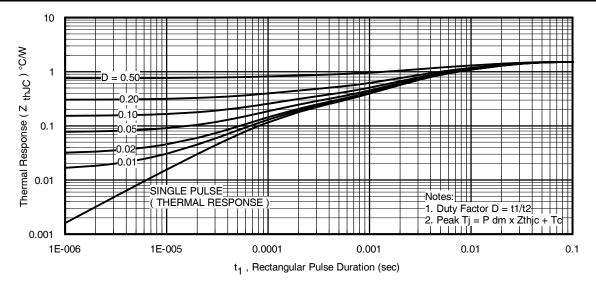


Fig 13. Maximum Effective Transient Thermal Impedance, Junction-to-Case

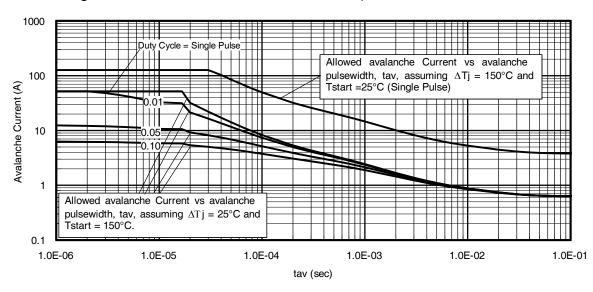


Fig 14. Typical Avalanche Current Vs. Pulse width

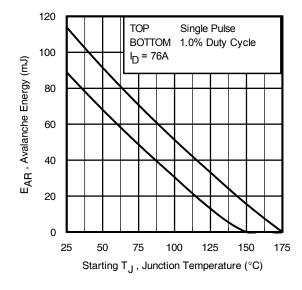


Fig 15. Maximum Avalanche Energy Vs. Temperature

Notes on Repetitive Avalanche Curves, Figures 14, 15: (For further info. see AN-1005 at www.infineon.com)

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

 1. Avalanche failures assumption:
 - Purely a thermal phenomenon and failure occurs at a temperature far in excess of T_{jmax}. This is validated for every part type.
- 2. Safe operation in Avalanche is allowed as long as T_{jmax} is not exceeded.
- 3. Equation below based on circuit and waveforms shown in Figures 22a, 22b.
- 4. PD (ave) = Average power dissipation per single avalanche pulse.
- 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 13, 14).

tav = Average time in avalanche.

D = Duty cycle in avalanche = tav ·f

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

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

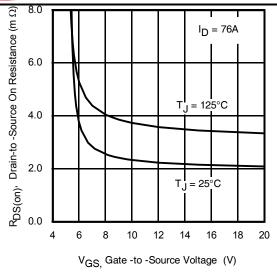


Fig 16. On-Resistance vs. Gate Voltage

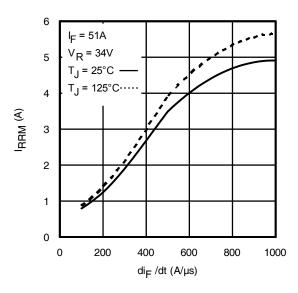


Fig. 18 - Typical Recovery Current vs. dif/dt

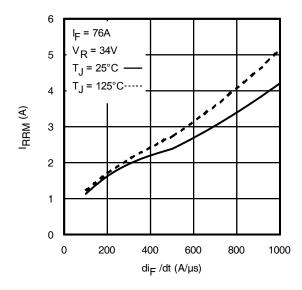


Fig. 20 - Typical Recovery Current vs. dif/dt

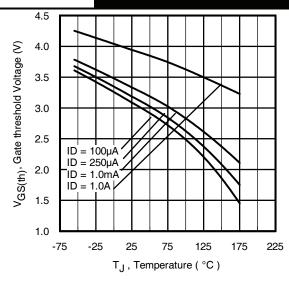


Fig. 17 - Threshold Voltage vs. Temperature

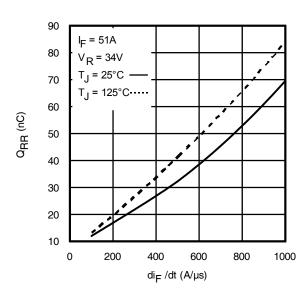


Fig. 19 - Typical Stored Charge vs. dif/dt

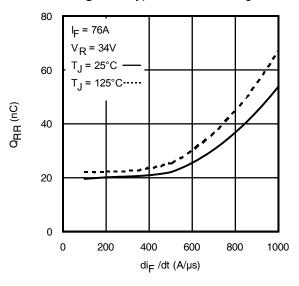


Fig. 21 - Typical Stored Charge vs. dif/dt



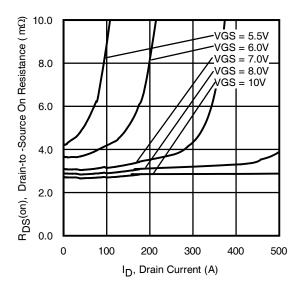


Fig 22. Typical On-Resistance vs. Drain Current



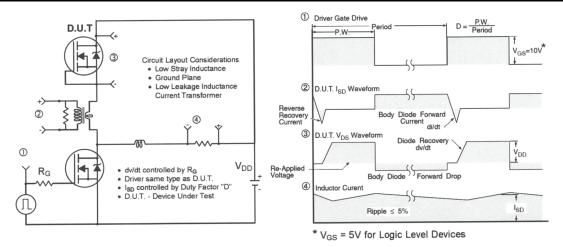


Fig 23. Peak Diode Recovery dv/dt Test Circuit for N-Channel HEXFET® Power MOSFETs

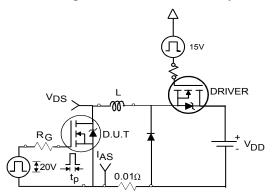


Fig 24a. Unclamped Inductive Test Circuit

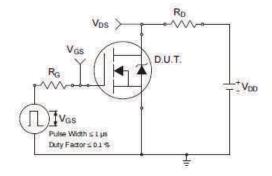


Fig 25a. Switching Time Test Circuit

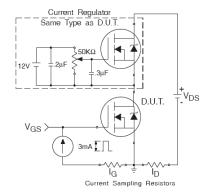


Fig 26a. Gate Charge Test Circuit

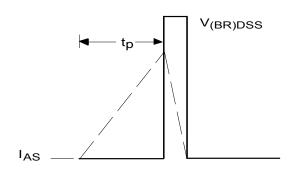


Fig 24b. Unclamped Inductive Waveforms

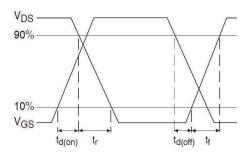


Fig 25b. Switching Time Waveforms

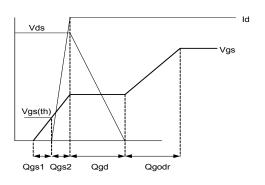
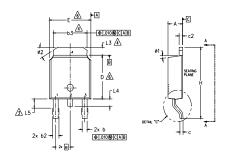


Fig 26b. Gate Charge Waveform

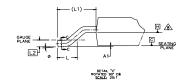
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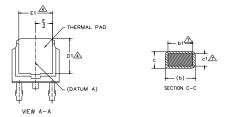


D-Pak (TO-252AA) Package Outline (Dimensions are shown in millimeters (inches))









NOTES:

- 1.- DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
- 2.- DIMENSION ARE SHOWN IN INCHES [MILLIMETERS].
- 1 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.
- Limited Dimension 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 61 & 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		DIMEN	SIONS		Ŋ
B	MILLIMETERS INC		HES	O T E S	
L	MIN.	MAX.	MIN.	MAX.	S
Α	2.18	2.39	.086	.094	
A1	-	0.13	-	.005	
b	0.64	0.89	.025	.035	
ь1	0.65	0.79	.025	.031	7
b2	0.76	1.14	.030	.045	
b3	4.95	5.46	.195	.215	4
С	0.46	0.61	.018	.024	
с1	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
Ε	6.35	6.73	.250	.265	6
E1	4.32	-	.170	-	4
е	2.29	BSC	.090	BSC	
Н	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*	
ø2	25*	35°	25*	35°	

LEAD ASSIGNMENTS

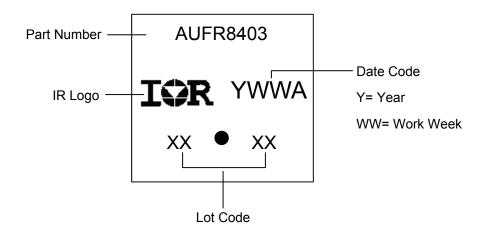
HEXFET

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

IGBT & CoPAK

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

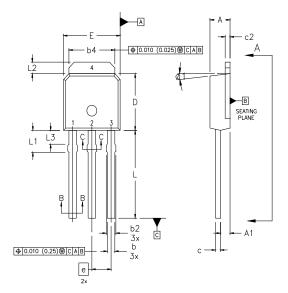
D-Pak (TO-252AA) Part Marking Information

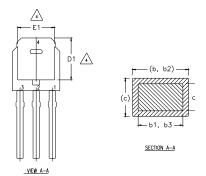


Note: For the most current drawing please refer to IR website at http://www.irf.com/package/



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





NOTES:

SYMBOL

A1

b

ь1

b2

b4

c1 c2

D

D1

E1

е L

L1

L2

L3

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

INCHES

.094

0.045

0.035

0.031

0.045

0.041

0.215

0.024

0.022

0.035

0.245

0.265

0.380

0.090

0.050

0.060

15*

0.086

0.035

0.025

0.025

0.030

0.030

0.195

0.018

0.016

0.018

0.235

0.205

0.250

0.170

0.350

0.075

0.035

0.045

0.090 BSC

NOTES

LEAD DIMENSION UNCONTROLLED IN L3.

2.39

1.14

0.89

0.79

1.14

1.04

5.46

0.61

0.56

0.86

6.22

6.73

9.60

2.29

1.27

1.52

- DIMENSION 61, 63 APPLY TO BASE METAL ONLY.
- OUTLINE CONFORMS TO JEDEC OUTLINE TO-251AA.

DIMENSIONS

CONTROLLING DIMENSION: INCHES.

MILLIMETERS

MIN.

2.18

0.89

0.64

0.64

0.76

0.76

5.00

0.46

0.41

.046

5.97

5.21

6.35

4.32

8.89

1,91

0.89

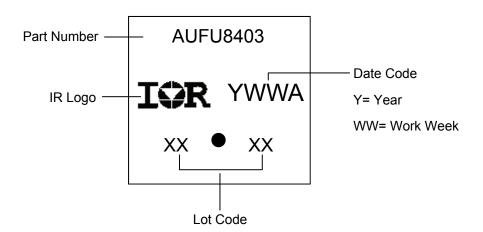
1.14

LEAD ASSIGNMENTS

HEX	Jr E

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

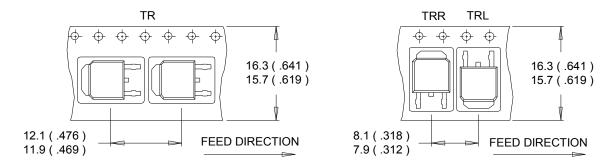
I-Pak (TO-251AA) Part Marking Information



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

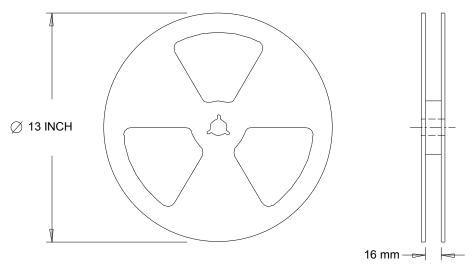


D-Pak (TO-252AA) Tape & Reel Information (Dimensions are shown in millimeters (inches))



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

		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		
		I-Pak	IVISL I		
			Class M2 (+/- 200V) [†]		
	Machine Model	AEC-Q101-002			
FOD	Liveran Dady Madal	Class H1C (+/- 2000V) [†]			
ESD	Human Body Model	AEC-Q101-001			
	Charred Davis Madel	Class C5 (+/- 2000V) [†]			
Charged Device Model		AEC-Q101-005			
RoHS Compliant Yes		Yes			

[†] 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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