PD - 95579A IRL3705ZPbF

IRL3705ZSPbF IRL3705ZLPbF

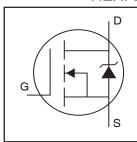
HEXFET® Power MOSFET

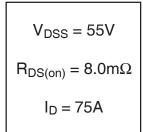
Features

- Logic Level
- Advanced Process Technology
- Ultra Low On-Resistance
- 175°C Operating Temperature
- Fast Switching
- Repetitive Avalanche Allowed up to Tjmax
- Lead-Free

Description

This HEXFET® Power MOSFET utilizes the latest processing techniques to achieve extremely low on-resistance per silicon area. Additional features of this design are a 175°C junction operating temperature, fast switching speed and improved repetitive avalanche rating. These features combine to make this design an extremely efficient and reliable device for use in a wide variety of applications.











TO-220AB

D²Pak

TO-262 IRL3705ZPbF IRL3705ZSPbF IRL3705ZLPbF

Absolute Maximum Ratings

	Parameter	Max.	Units
I _D @ T _C = 25°C	Continuous Drain Current, V _{GS} @ 10V (Silicon Limited)	86	
I _D @ T _C = 100°C	Continuous Drain Current, V _{GS} @ 10V	61	Α
I _D @ T _C = 25°C	Continuous Drain Current, V _{GS} @ 10V (Package Limited)	75	
I _{DM}	Pulsed Drain Current ①	340	
P _D @T _C = 25°C	Power Dissipation	130	W
	Linear Derating Factor	0.88	W/°C
V _{GS}	Gate-to-Source Voltage	± 16	V
E _{AS (Thermally limited)}	Single Pulse Avalanche Energy ^②	120	mJ
E _{AS} (Tested)	Single Pulse Avalanche Energy Tested Value ®	180	
AR	Avalanche Current ①	See Fig.12a, 12b, 15, 16	Α
E _{AR}	Repetitive Avalanche Energy ©	-	mJ
TJ	Operating Junction and	-55 to + 175	
T _{STG}	Storage Temperature Range		°C
	Soldering Temperature, for 10 seconds	300 (1.6mm from case)	
	Mounting Torque, 6-32 or M3 screw ♡	10 lbf•in (1.1N•m)	

Thermal Resistance

	Parameter	Тур.	Max.	Units
$R_{\theta JC}$	Junction-to-Case		1.14	°C/W
$R_{\theta CS}$	Case-to-Sink, Flat Greased Surface ⑦	0.50		
$R_{\theta JA}$	Junction-to-Ambient ⑦		62	
$R_{\theta JA}$	Junction-to-Ambient (PCB Mount) ®		40	

Electrical Characteristics @ 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		0.055		V/°C	Reference to 25°C, I _D = 1mA
			6.5	8.0		V _{GS} = 10V, I _D = 52A ③
R _{DS(on)}	Static Drain-to-Source On-Resistance			11	mΩ	$V_{GS} = 5.0V, I_D = 43A$ ③
				12		$V_{GS} = 4.5V, I_D = 30A$ ③
$V_{GS(th)}$	Gate Threshold Voltage	1.0		3.0	V	$V_{DS} = V_{GS}$, $I_D = 250\mu A$
gfs	Forward Transconductance	150			V	$V_{DS} = 25V, I_{D} = 52A$
I _{DSS}	Drain-to-Source Leakage Current			20	μΑ	$V_{DS} = 55V$, $V_{GS} = 0V$
				250		$V_{DS} = 55V, V_{GS} = 0V, T_{J} = 125^{\circ}C$
I _{GSS}	Gate-to-Source Forward Leakage			200	nA	V _{GS} = 16V
	Gate-to-Source Reverse Leakage			-200		$V_{GS} = -16V$
Q_g	Total Gate Charge		40	60		I _D = 43A
Q_{gs}	Gate-to-Source Charge		12		nC	$V_{DS} = 44V$
Q_{gd}	Gate-to-Drain ("Miller") Charge		21			V _{GS} = 5.0V ③
$t_{d(on)}$	Turn-On Delay Time	_	17			$V_{DD} = 28V$
t _r	Rise Time	_	240	_	ns	I _D = 43A
t _{d(off)}	Turn-Off Delay Time		26			$R_G = 4.3 \Omega$
t _f	Fall Time	_	83			V _{GS} = 5.0V ③
L_D	Internal Drain Inductance		4.5			Between lead,
					nΗ	6mm (0.25in.)
Ls	Internal Source Inductance		7.5			from package
						and center of die contact
C _{iss}	Input Capacitance		2880			$V_{GS} = 0V$
Coss	Output Capacitance		420			$V_{DS} = 25V$
C _{rss}	Reverse Transfer Capacitance		220		pF	f = 1.0MHz
Coss	Output Capacitance		1500			$V_{GS} = 0V$, $V_{DS} = 1.0V$, $f = 1.0MHz$
C _{oss}	Output Capacitance		330			$V_{GS} = 0V, V_{DS} = 44V, f = 1.0MHz$
Coss eff.	Effective Output Capacitance		510			$V_{GS} = 0V, V_{DS} = 0V \text{ to } 44V $

Source-Drain Ratings and Characteristics

	Parameter	Min.	Min. Typ.		Units	Conditions	
I _S	Continuous Source Current			75		MOSFET symbol	
	(Body Diode)				Α	showing the	
I _{SM}	Pulsed Source Current			340		integral reverse	
	(Body Diode) ①					p-n junction diode.	
V _{SD}	Diode Forward Voltage			1.3	V	$T_J = 25$ °C, $I_S = 52A$, $V_{GS} = 0V$ ③	
t _{rr}	Reverse Recovery Time		16	24	ns	$T_J = 25$ °C, $I_F = 43A$, $V_{DD} = 28V$	
Q _{rr}	Reverse Recovery Charge		7.4	11	nC	di/dt = 100A/μs ③	
t _{on}	Forward Turn-On Time	Intrinsio	turn-or	time is	negligib	le (turn-on is dominated by LS+LD)	

IRL3705Z/S/LPbF

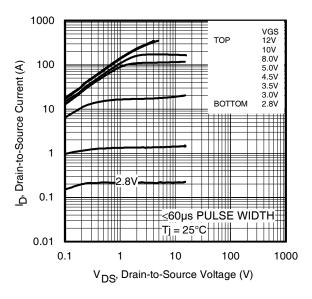


Fig 1. Typical Output Characteristics

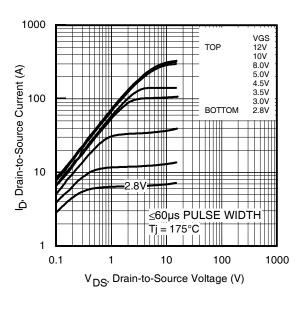


Fig 2. Typical Output Characteristics

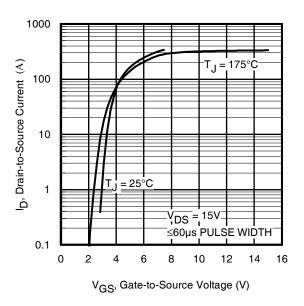


Fig 3. Typical Transfer Characteristics

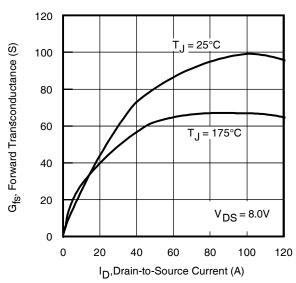


Fig 4. Typical Forward Transconductance vs. Drain Current

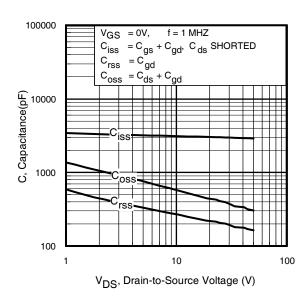


Fig 5. Typical Capacitance vs. Drain-to-Source Voltage

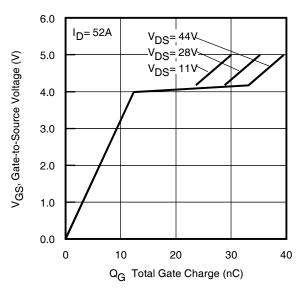


Fig 6. Typical Gate Charge vs. Gate-to-Source Voltage

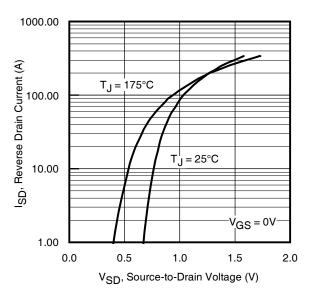


Fig 7. Typical Source-Drain Diode Forward Voltage

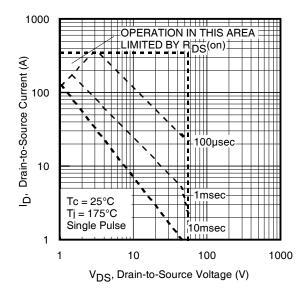


Fig 8. Maximum Safe Operating Area

IRL3705Z/S/LPbF

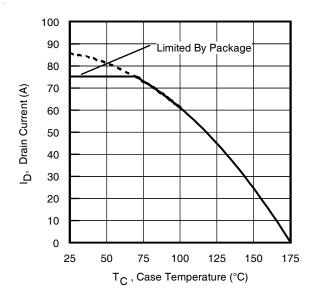


Fig 9. Maximum Drain Current vs. Case Temperature

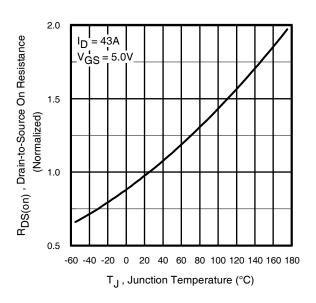


Fig 10. Normalized On-Resistance vs. Temperature

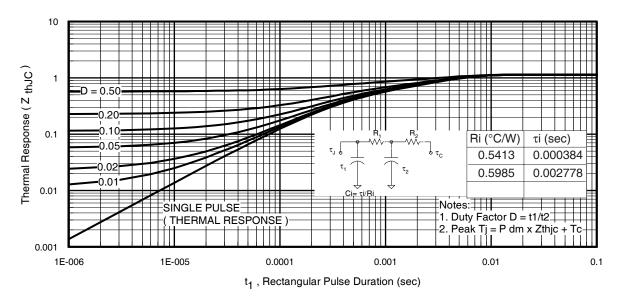


Fig 11. Maximum Effective Transient Thermal Impedance, Junction-to-Case

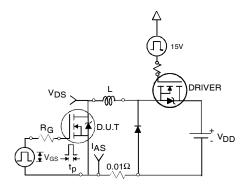


Fig 12a. Unclamped Inductive Test Circuit

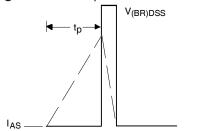


Fig 12b. | Unclamped Inductive Waveforms

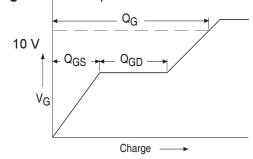


Fig 13a. Basic Gate Charge Waveform

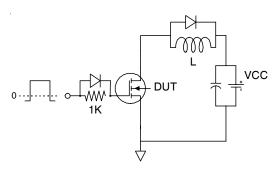


Fig 13b. Gate Charge Test Circuit

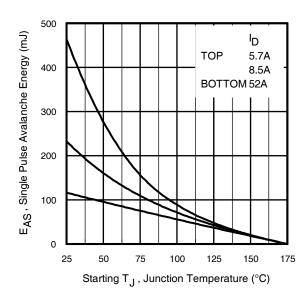


Fig 12c. Maximum Avalanche Energy vs. Drain Current

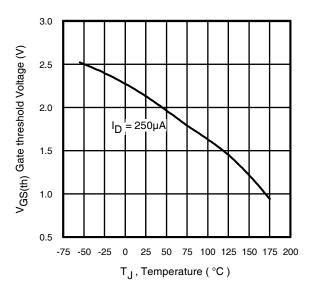


Fig 14. Threshold Voltage vs. Temperature www.irf.com

IRL3705Z/S/LPbF

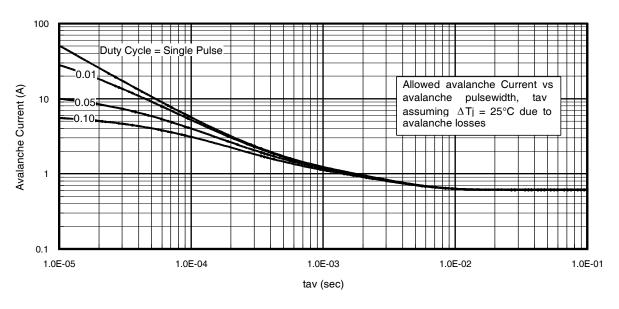


Fig 15. Typical Avalanche Current vs. Pulsewidth

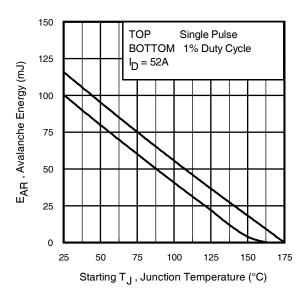


Fig 16. Maximum Avalanche Energy vs. Temperature

Notes on Repetitive Avalanche Curves, Figures 15, 16: (For further info, see AN-1005 at www.irf.com)

- 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.
- Safe operation in Avalanche is allowed as long asT_{jmax} is not exceeded.
- 3. Equation below based on circuit and waveforms shown in Figures 12a, 12b.
- P_{D (ave)} = Average power dissipation per single avalanche pulse.
- BV = Rated breakdown voltage (1.3 factor accounts for voltage increase during avalanche).
- 6. I_{av} = Allowable avalanche current.
- 7. ΔT = Allowable rise in junction temperature, not to exceed T_{jmax} (assumed as 25°C in Figure 15, 16). t_{av} = Average time in avalanche. D = Duty cycle in avalanche = $t_{av} \cdot f$

 $Z_{thJC}(D, t_{av})$ = Transient thermal resistance, see figure 11)

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

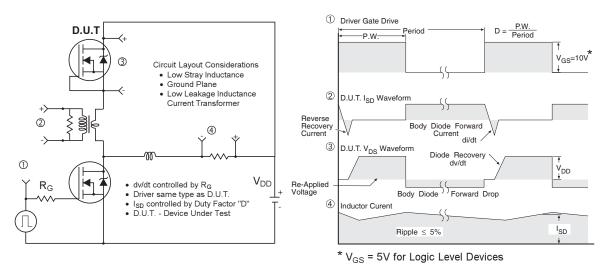


Fig 17. Peak Diode Recovery dv/dt Test Circuit for N-Channel HEXFET® Power MOSFETs

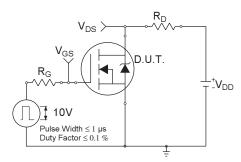


Fig 18a. Switching Time Test Circuit

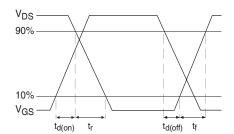
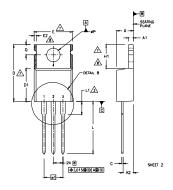


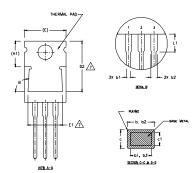
Fig 18b. Switching Time Waveforms

IRL3705Z/S/LPbF

TO-220AB Package Outline

Dimensions are shown in millimeters (inches)





S:
DIMENSIONING AND TOLERANCING PER ASME Y14,5 M- 1994,
DIMENSIONS ARE SHOWN IN INCHES [MILLIMETERS],
LEAD DIMENSION AND FINISH UNCONTROLLED IN L1.
DIMENSION D & E DO NOT INCLUDE MOLD FLASH, MOLD FLASH
SHALL NOT EXCEED .005" (0.127) PER SIDE, THESE DIMENSIONS ARE
MEASURED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY.
DIMENSION 61 & c1 APPLY TO BASE METAL ONLY,
CONTROLLING DIMENSION : INCHES.

7 THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSIONS E,H1,D2 & E1 8 DIMENSION E2 X H1 DEFINE A ZONE WHERE STAMPING AND SINGULATION IRREGULARITIES ARE ALLOWED.

	DIMENSIONS					
SYMBOL	MILLIM	ETERS	INC	INCHES		
	MiN.	MAX,	MIN.	MAX.	NOTES	
A	3,56	4.82	.140	.190		
A1	0.51	1,40	.020	.055		
A2	2,04	2,92	.080	,115		
ь	0.38	1,01	.015	.040		
b1	0.38	0.96	.015	.038	5	
b2	1.15	1,77	.045	.070		
b3	1,15	1,73	.045	.068		
С	0.36	0.61	.014	.024		
c1	0,36	0.56	.014	.022	5	
D	14,22	16,51	.560	.650	4	
D1	8.38	9.02	.330	.355		
D2	12,19	12,88	.480	,507	7	
E	9.66	10.66	.380	.420	4,7	
E1	8,38	8,89	.330	,350	7	
e	2.54	BSC	,100			
e1		08		BSC	ł	
H1	5.85	6.55	.230	.270	7,8	
L	12.70	14,73	.500	.580		
L1	-	6.35	-	.250	3	
ø₽	3,54	4,08	.139	.161		
Q	2.54	3.42	.100	.135		
ø	90*-	-93"	90*	-93*	1	

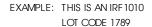
ead assignments

HEXFET 1,- gate 2,- drain 3,- source

I.- GATE
2.- COLLECTOR

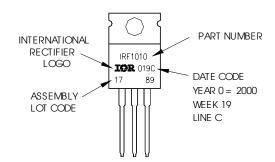
DIODES 1.- ANODE/OPEN 2.- CATHODE

TO-220AB Part Marking Information



ASSEMBLED ON WW 19, 2000 IN THE ASSEMBLY LINE "C"

Note: "P" in assembly line position indicates "Lead - Free"



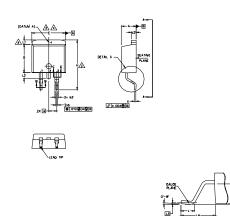
Notes:

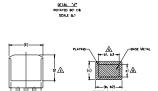
- 1. For an Automotive Qualified version of this part please seehttp://www.irf.com/product-info/auto/
- 2. For the most current drawing please refer to IR website at http://www.irf.com/package/

International **I⊆R** Rectifier

D²Pak (TO-263AB) Package Outline

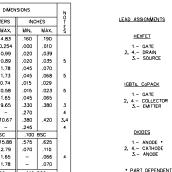
Dimensions are shown in millimeters (inches)



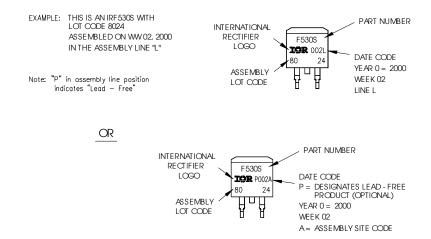


- NOTES; 1. DIMENSIONING AND TOLERANCING PER ASME Y14,5M-1994
- 2. DIMENSIONS ARE SHOWN IN MILLIMETERS [INCHES].
- DIMENSION D & E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.127 [.000*] PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTMOST EXTREMES OF THE PLASTIC BODY AT DATUM H.
- A. THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSION E, L1, D1 & E1.
- 5. DIMENSION 61 AND 61 APPLY TO BASE METAL ONLY.
- 6. DATUM A & B TO BE DETERMINED AT DATUM PLANE H,
- 7. CONTROLLING DIMENSION: INCH.
- 8. OUTLINE CONFORMS TO JEDEC OUTLINE TO-263AB.

No.	_					_
A 4.06 4.83 1.60 1.90 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ÿ		DIMEN	SIONS	N	
A 4.06 4.83 1.60 1.90 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B	MILLIM	ETERS	INC	HES	1 9
A 0,00 0,254 0,000 0,100 b 0,51 0,99 0,20 0,39 b 0,51 0,99 0,20 0,35 5 b 1,14 1,78 0,45 0,70 8 5 c 0,85 0,74 0,15 0,029 6 0,123 6 0,23 6 0,23 6 0,66 0,05 <t< td=""><td>L</td><td>MIN.</td><td>MAX.</td><td>MIN.</td><td>MAX.</td><td>] š</td></t<>	L	MIN.	MAX.	MIN.	MAX.] š
b 0.51 0.99 0.20 0.39 10 0.51 0.99 0.20 0.35 5 5 10 0.99 0.20 0.35 5 5 10 0.99 0.20 0.35 5 5 10 0.99 0.20 0.35 5 10 0.99 0.20 0.35 10 0.29 0.29 0.29 0.38 0.58 0.05 0.83 0.69 0.016 0.025 0.0 0.38 0.69 0.016 0.025 0.0 0.38 0.69 0.016 0.025 0.0 0.05 0.05 0.05 0.05 0.05 0.05	Α	4.06	4.83	.160	.190	
bl 0,51 0,89 0,20 0,35 5 2 1,14 1,78 0,45 0,70 5 b3 1,14 1,73 0,45 0,68 5 c 0,38 0,74 0,15 0,23 6 c 0,38 0,74 0,15 0,23 6 c 0,38 0,74 0,45 0,68 5 c 0,38 0,74 0,45 0,68 7 c 0,14 1,65 0,45 0,68 1 b 8,39 0,56 3,30 3,80 3 d 6,86 − 2,70 − 24 6 b 9,66 10,67 3,80 4,20 3,4 t1 6,22 − 2,46 − 2,46 − 2,46 − 2 t1 6,22 − 2,46 − 2,46 − 2 t1 1,78 − 2,79 0,70 1,10 − 1 t1 − 1,68 − 1 0,66 4 t1,78 − 2,79 0,70 1,10 − 1 t1 − 1,65 − 0,66 4 t2,178 − 2,79 0,70 1,10 − 1 t1 − 1,65 − 0,66 4 t2,178 − 2,79 0,70 1,10 − 1 t1 − 1,65 − 0,66 4 t2,178 − 2,79 0,70 1,10 − 1 t1 − 1,65 − 0,66 4 t2,178 − 2,79 0,70 1,10 − 1 t1 − 1,65 − 0,66 4 t2,178 − 2,79 0,70 1,10 − 1 t1 − 1,65 − 0,66 4 t2,178 − 2,79 0,70 1,10 − 1 t1 − 1,65 − 0,66 4 t2,178 − 2,79 0,70 1,10 − 1 t1 − 0,18 − 0,66 4 t2,178 − 0,66 − 0,66 6 t2,178	A1	0.00	0,254	.000	.010	
b2 1.14 1.78 .045 .070 b2 1.14 1.73 .045 .068 5 c 0.38 0.74 .015 .029 0 c1 0.38 0.69 .016 .023 0 0 0.65 0.65 .065 .065 .065 0 0.66 0 8.06 .330 .380 .3 .300 3 .420 3.4 3.4 2.2 4 4 2.2 4	ь	0.51	0.99	.020	.039	
14	ь1	0.51	0.89	.020	.035	5
c 0.38 0.74 .015 .029 c1 0.08 0.050 .015 .023 0 c1 0.015 .023 0 c2 1.14 1.05 .045 .005 0 c1 0.05 0 c1 0.0	b2	1,14	1,78	.045	.070	
cl 0.38 0.88 0.16 0.23 5 cl 1.14 1.65 0.45 0.65 0.65 0.64 0.65 0.67 0.83 3 3 3 3 3 3 3 3 3 3 3 420 3,4 3,4 4 3,4 4 3,4 4 3,4 4	b3	1,14	1,73	.045	.068	5
c2 1.14 1.65 .045 .085 3 D 8.39 9.65 .330 .380 3 E 9.65 1.06 .360 .420 3,4 E 9.65 10.67 .380 .420 3,4 e 2.54 85C .100 85C H 14.61 1.68 7.75 .625 L 1.78 2.79 .070 .110 L1 - 1.65 - .066 4 L1 1.77 .77 .070 .000 4 L1 1.72 1.78 . .070 8 L3 0.25 85C .010 85C 9	С	0.38	0.74	.015	.029	
0 8.38 9.65 .330 .380 .3 1 6.86 - .270 .4 .4 E 9.65 10.67 .380 .420 3.4 E1 6.22 - .246 4 E2 2.5+ \$\infty\$.625 .625 H 14.61 16.88 .576 .625 L1 1.79 .070 .110 .10 L1 - 1.65 - .066 4 L2 1.27 1.78 - .066 4 L3 0.25 \$\infty\$ \$\infty\$ \$\infty\$ L3 0.25 \$\infty\$ \$\infty\$	c1	0.38		.015	.023	5
0		1.14		.045	.065	
E 9.65 10.67 .380 .420 3.4 EI 6.22 - 2.58 SC .100 SC .110 S			9.65		.380	
E1 8.22		6.86	-	.270		4
e 2.54 BSC		9.65	10.67	.380	.420	3.4
H 14.61 15.88 .575 .625 L 1.78 2.79 .070 .110 L1 - 1.65066 4 L2 1.27 1.78070 L3 0.25 BSC .010 BSC	E1	6.22	-	.245		4
L 1.78 2.79 .070 .110 L1 - 1.65066 4 L2 1.27 1.78070 L3 0.25 BSC .010 BSC				.100	BSC	
L1 - 1.65066 4 L2 1.27 1.78070 L3 0.25 BSC .010 BSC						
L2 1.27 1.78070 L3 0.25 BSC .010 BSC		1.78		.070		
L3 0,25 BSC .010 BSC		-		-		4
1.20 011	L2	1.27	1.78		.070	
L4 4.78 5.28 .188 .208]
	L4	4.78	5.28	.188	.208	



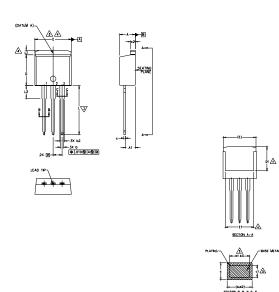
D²Pak (TO-263AB) Part Marking Information



- 1. For an Automotive Qualified version of this part please see http://www.irf.com/product-info/auto/
- 2. For the most current drawing please refer to IR website at http://www.irf.com/package/

TO-262 Package Outline

Dimensions are shown in millimeters (inches)



- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
- 2. DIMENSIONS ARE SHOWN IN MILLIMETERS [INCHES].
- 3. DIMENSION D & E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.127 [.005"] PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTMOST EXTREMES OF THE PLASTIC BODY.
- 4. THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSION E, L1, D1 & E1.
- 5. DIMENSION 61 AND c1 APPLY TO BASE METAL ONLY.
- 6. CONTROLLING DIMENSION; INCH.
- 7.- OUTLINE CONFORM TO JEDEC TO-262 EXCEPT A1(max.), b(min.) AND D1(min.) WHERE DIMENSIONS DERIVED THE ACTUAL PACKAGE OUTLINE.

S	DIMENSIONS						
M B O L	MILLIM	ETERS	INC	NOTES			
L	MIN.	MAX.	MIN.	MAX.	S		
Α	4,06	4.83	.160	,190			
A1	2.03	3.02	.080	.119			
ь	0.51	0.99	.020	.039			
ь1	0.51	0.89	.020	.035	5		
b2	1,14	1.78	.045	.070			
b3	1.14	1.73	.045	.068	5		
c	0.38	0.74	.015	.029			
c1	0.38	0.58	.015	.023	5		
c2	1.14	1.65	.045	.065			
D	8.38	9.65	.330	.380	3		
D1	6.86	-	.270	-	4		
Ε	9.65	10,67	.380	.420	3,4		
E1	6.22	-	.245		4		
e	2.54 BSC		.100	BSC			
L	13.46	14,10	.530	.555			
L1	-	1.65	-	.065	4		
L2	3,56	3,71	.140	.146			

LEAD ASSIGNMENTS

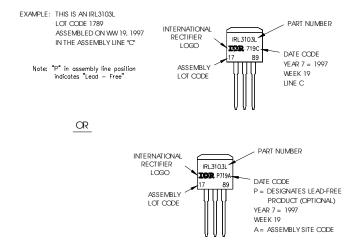
HEXFET

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

IGBTs, CoPACK

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

TO-262 Part Marking Information

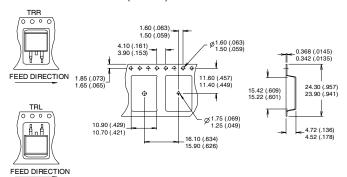


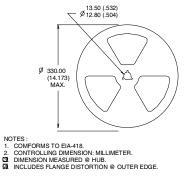
- 1. For an Automotive Qualified version of this part please see http://www.irf.com/product-info/auto/
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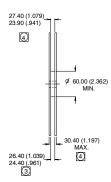
International **I⊆R** Rectifier

D²Pak Tape & Reel Information

Dimensions are shown in millimeters (inches)







Notes:

- ① Repetitive rating; pulse width limited by max. junction temperature. (See fig. 11).
- Limited by T_{Jmax} , starting $T_{J} = 25^{\circ}C$, $L = 0.09 mH R_G = 25\Omega$, $I_{AS} = 52A$, $V_{GS} = 10V$. Part not recommended for use above this value.
- 3 Pulse width \leq 1.0ms; duty cycle \leq 2%.
- ④ Coss 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} .
- ⑤ Limited by T_{Jmax} , see Fig.12a, 12b, 15, 16 for typical repetitive avalanche performance.
- This value determined from sample failure population. 100% tested to this value in production.
- This is only applied to TO-220AB pakcage.
- This is applied to D²Pak, 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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Data and specifications subject to change without notice. This product has been designed and qualified for the Industrial market. Qualification Standards can be found on IR's Web site.



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