

# IRFSL3004PBF Datasheet



DiGi Electronics Part Number	IRFSL3004PBF-DG
Manufacturer	Infineon Technologies
Manufacturer Product Number	IRFSL3004PBF
Description	MOSFET N-CH 40V 195A TO262
Detailed Description	N-Channel 40 V 195A (Ta) 380W (Tc) Through Hole TO-262

<https://www.DiGi-Electronics.com>



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## Purchase and inquiry

Manufacturer Product Number:

IRFSL3004PBF

Series:

HEXFET®

Part Status:

Obsolete

Manufacturer:

Infineon Technologies

Packaging:

Tube

FET Type:

N-Channel

International  
 Rectifier

PD - 97377

# IRFB3004PbF

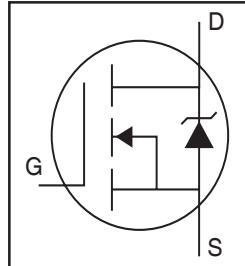
# IRFS3004PbF

# IRFSL3004PbF

HEXFET® Power MOSFET

**Applications**

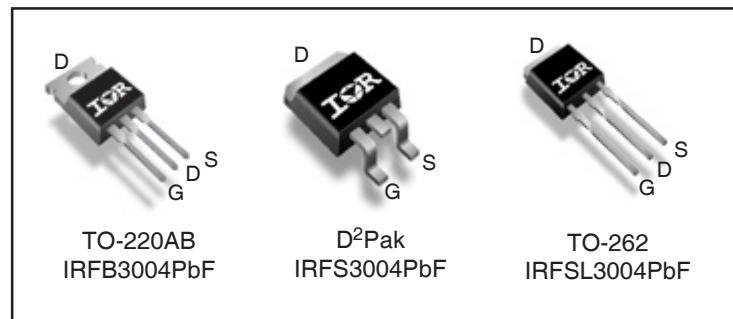
- High Efficiency Synchronous Rectification in SMPS
- Uninterruptible Power Supply
- High Speed Power Switching
- Hard Switched and High Frequency Circuits



<b>V<sub>DSS</sub></b>	<b>40V</b>
<b>R<sub>DS(on)</sub></b> typ.	<b>1.4mΩ</b>
<b>max.</b>	<b>1.75mΩ</b>
<b>I<sub>D</sub> (Silicon Limited)</b>	<b>340A①</b>
<b>I<sub>D</sub> (Package Limited)</b>	<b>195A</b>

**Benefits**

- Improved Gate, Avalanche and Dynamic dV/dt Ruggedness
- Fully Characterized Capacitance and Avalanche SOA
- Enhanced body diode dV/dt and dI/dt Capability
- Lead-Free



G	D	S
Gate	Drain	Source

**Absolute Maximum Ratings**

Symbol	Parameter	Max.	Units
I <sub>D</sub> @ T <sub>C</sub> = 25°C	Continuous Drain Current, V <sub>GS</sub> @ 10V (Silicon Limited)	340①	A
I <sub>D</sub> @ T <sub>C</sub> = 100°C	Continuous Drain Current, V <sub>GS</sub> @ 10V (Silicon Limited)	240①	
I <sub>D</sub> @ T <sub>C</sub> = 25°C	Continuous Drain Current, V <sub>GS</sub> @ 10V (Wire Bond Limited)	195	
I <sub>DM</sub>	Pulsed Drain Current ②	1310	
P <sub>D</sub> @ T <sub>C</sub> = 25°C	Maximum Power Dissipation	380	W
	Linear Derating Factor	2.5	W/°C
V <sub>GS</sub>	Gate-to-Source Voltage	± 20	V
dv/dt	Peak Diode Recovery ④	4.4	V/ns
T <sub>J</sub>	Operating Junction and	-55 to + 175	°C
T <sub>STG</sub>	Storage Temperature Range		
	Soldering Temperature, for 10 seconds (1.6mm from case)	300	
	Mounting torque, 6-32 or M3 screw	10lbf·in (1.1N·m)	

**Avalanche Characteristics**

E <sub>AS</sub> (Thermally limited)	Single Pulse Avalanche Energy ③	300	mJ
I <sub>AR</sub>	Avalanche Current ②	See Fig. 14, 15, 22a, 22b	A
E <sub>AR</sub>	Repetitive Avalanche Energy ②		mJ

**Thermal Resistance**

Symbol	Parameter	Typ.	Max.	Units
R <sub>θJC</sub>	Junction-to-Case ⑨⑩	—	0.40	°C/W
R <sub>θCS</sub>	Case-to-Sink, Flat Greased Surface, TO-220	0.50	—	
R <sub>θJA</sub>	Junction-to-Ambient, TO-220	—	62	
R <sub>θJA</sub>	Junction-to-Ambient (PCB Mount) , D <sup>2</sup> Pak ⑧	—	40	

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Static @  $T_J = 25^\circ\text{C}$  (unless otherwise specified)

Symbol	Parameter	Min.	Typ.	Max.	Units	Conditions
$V_{(\text{BR})\text{DSS}}$	Drain-to-Source Breakdown Voltage	40	—	—	V	$V_{GS} = 0\text{V}$ , $I_D = 250\mu\text{A}$
$\Delta V_{(\text{BR})\text{DSS}}/\Delta T_J$	Breakdown Voltage Temp. Coefficient	—	0.037	—	V/ $^\circ\text{C}$	Reference to $25^\circ\text{C}$ , $I_D = 5\text{mA}$ ②
$R_{DS(\text{on})}$	Static Drain-to-Source On-Resistance	—	1.4	1.75	$\text{m}\Omega$	$V_{GS} = 10\text{V}$ , $I_D = 195\text{A}$ ⑤
$V_{GS(\text{th})}$	Gate Threshold Voltage	2.0	—	4.0	V	$V_{DS} = V_{GS}$ , $I_D = 250\mu\text{A}$
$I_{DSS}$	Drain-to-Source Leakage Current	—	—	20	$\mu\text{A}$	$V_{DS} = 40\text{V}$ , $V_{GS} = 0\text{V}$
		—	—	250	$\mu\text{A}$	$V_{DS} = 40\text{V}$ , $V_{GS} = 0\text{V}$ , $T_J = 125^\circ\text{C}$
$I_{GSS}$	Gate-to-Source Forward Leakage	—	—	100	nA	$V_{GS} = 20\text{V}$
		—	—	-100	nA	$V_{GS} = -20\text{V}$
$R_G$	Internal Gate Resistance	—	2.2	—	$\Omega$	

Dynamic @  $T_J = 25^\circ\text{C}$  (unless otherwise specified)

Symbol	Parameter	Min.	Typ.	Max.	Units	Conditions
$g_{fs}$	Forward Transconductance	1170	—	—	S	$V_{DS} = 10\text{V}$ , $I_D = 195\text{A}$
$Q_g$	Total Gate Charge	—	160	240	nC	$I_D = 187\text{A}$
$Q_{gs}$	Gate-to-Source Charge	—	40	—	nC	$V_{DS} = 20\text{V}$
$Q_{gd}$	Gate-to-Drain ("Miller") Charge	—	68	—	nC	$V_{GS} = 10\text{V}$ ⑤
$Q_{\text{sync}}$	Total Gate Charge Sync. ( $Q_g - Q_{gd}$ )	—	92	—	nC	$I_D = 187\text{A}$ , $V_{DS} = 0\text{V}$ , $V_{GS} = 10\text{V}$
$t_{d(on)}$	Turn-On Delay Time	—	23	—	ns	$V_{DD} = 26\text{V}$
$t_r$	Rise Time	—	220	—	ns	$I_D = 195\text{A}$
$t_{d(off)}$	Turn-Off Delay Time	—	90	—	ns	$R_G = 2.7\Omega$
$t_f$	Fall Time	—	130	—	ns	$V_{GS} = 10\text{V}$ ⑤
$C_{iss}$	Input Capacitance	—	9200	—	pF	$V_{GS} = 0\text{V}$
$C_{oss}$	Output Capacitance	—	2020	—	pF	$V_{DS} = 25\text{V}$
$C_{rss}$	Reverse Transfer Capacitance	—	1340	—	pF	$f = 1.0 \text{ MHz}$ , See Fig. 5
$C_{oss \text{ eff. (ER)}}$	Effective Output Capacitance (Energy Related) ⑦	—	2440	—	pF	$V_{GS} = 0\text{V}$ , $V_{DS} = 0\text{V}$ to $32\text{V}$ ⑦, See Fig. 11
$C_{oss \text{ eff. (TR)}}$	Effective Output Capacitance (Time Related) ⑥	—	2690	—	pF	$V_{GS} = 0\text{V}$ , $V_{DS} = 0\text{V}$ to $32\text{V}$ ⑥

## Diode Characteristics

Symbol	Parameter	Min.	Typ.	Max.	Units	Conditions
$I_s$	Continuous Source Current (Body Diode)	—	—	340①	A	MOSFET symbol showing the integral reverse p-n junction diode.
$I_{SM}$	Pulsed Source Current (Body Diode) ②	—	—	1310	A	
$V_{SD}$	Diode Forward Voltage	—	—	1.3	V	$T_J = 25^\circ\text{C}$ , $I_s = 195\text{A}$ , $V_{GS} = 0\text{V}$ ⑤
$t_{rr}$	Reverse Recovery Time	—	27	—	ns	$T_J = 25^\circ\text{C}$ $V_R = 34\text{V}$ ,
		—	31	—	ns	$T_J = 125^\circ\text{C}$ $I_F = 195\text{A}$
$Q_{rr}$	Reverse Recovery Charge	—	18	—	nC	$T_J = 25^\circ\text{C}$ $\text{di}/\text{dt} = 100\text{A}/\mu\text{s}$ ⑤
		—	41	—	nC	$T_J = 125^\circ\text{C}$
$I_{RRM}$	Reverse Recovery Current	—	1.2	—	A	$T_J = 25^\circ\text{C}$
$t_{on}$	Forward Turn-On Time	Intrinsic turn-on time is negligible (turn-on is dominated by LS+LD)				

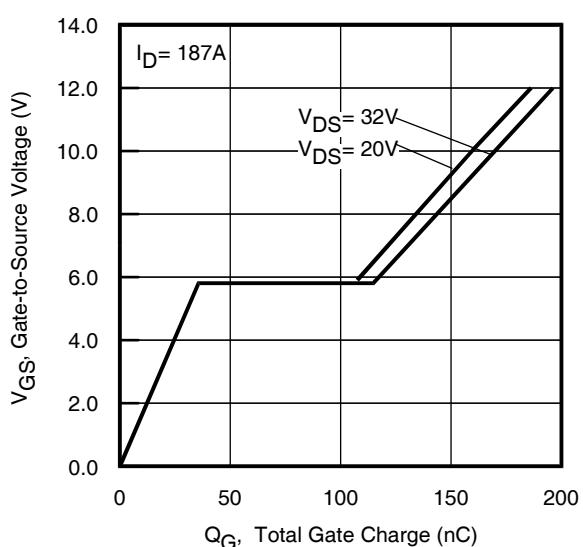
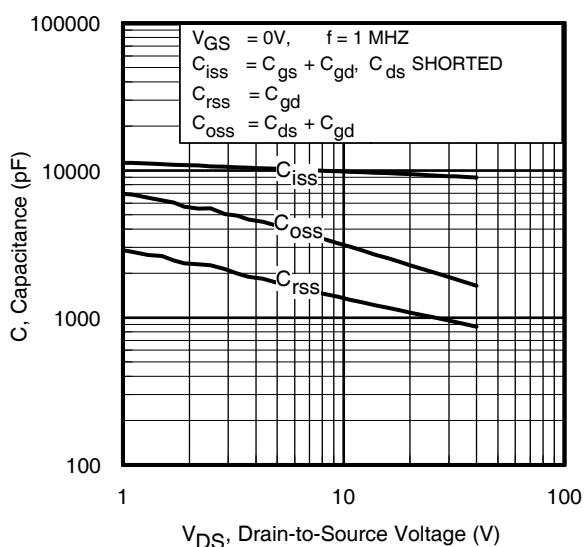
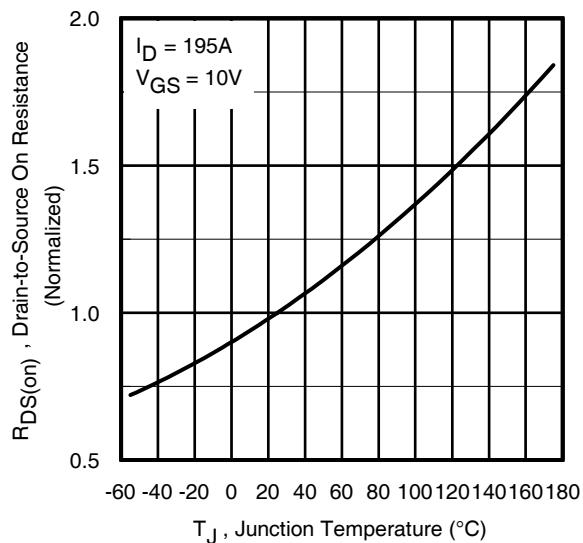
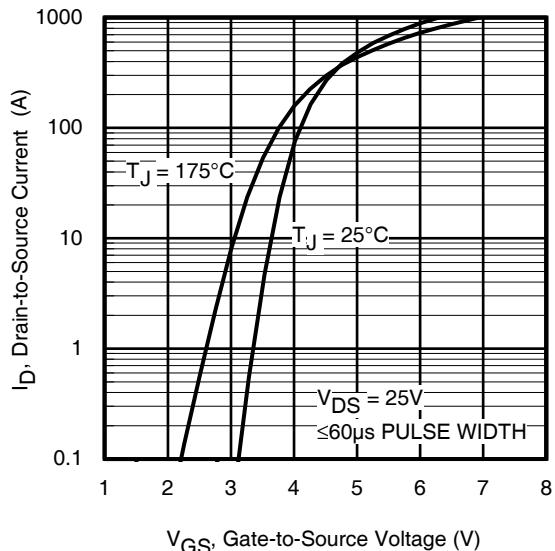
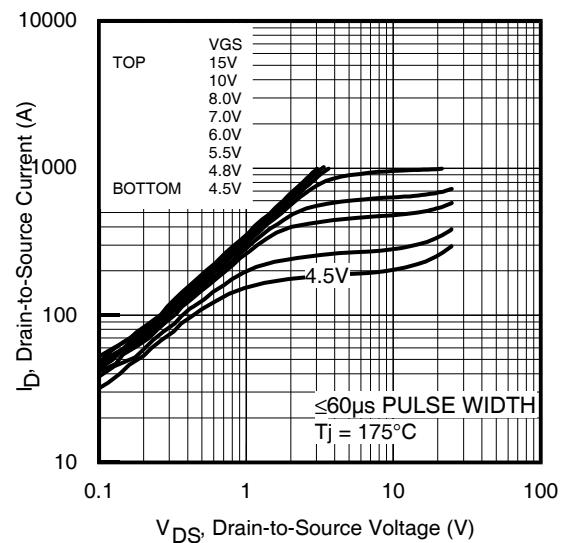
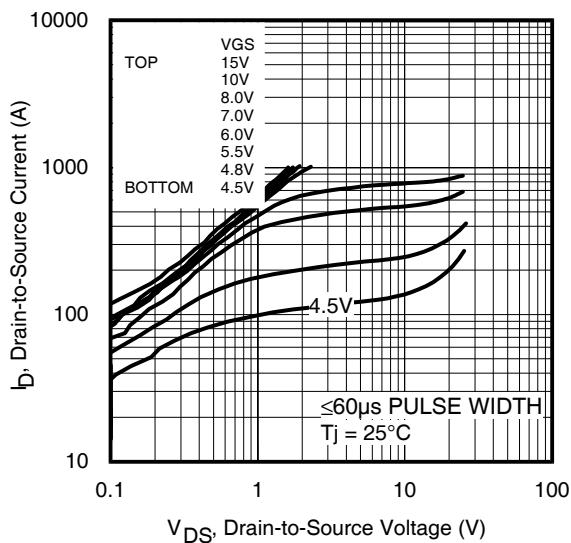
## Notes:

- ① Calculated continuous current based on maximum allowable junction temperature. Bond wire current limit is 195A. 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.
- ③ Limited by  $T_{J\max}$ , starting  $T_J = 25^\circ\text{C}$ ,  $L = 0.016\text{mH}$   $R_G = 25\Omega$ ,  $I_{AS} = 195\text{A}$ ,  $V_{GS} = 10\text{V}$ . Part not recommended for use above this value .

- ④  $I_{SD} \leq 195\text{A}$ ,  $\text{di}/\text{dt} \leq 930\text{A}/\mu\text{s}$ ,  $V_{DD} \leq V_{(\text{BR})\text{DSS}}$ ,  $T_J \leq 175^\circ\text{C}$ .
- ⑤ Pulse width  $\leq 400\mu\text{s}$ ; duty cycle  $\leq 2\%$ .
- ⑥  $C_{oss \text{ eff. (TR)}}$  is a fixed capacitance that gives the same charging time as  $C_{oss}$  while  $V_{DS}$  is rising from 0 to 80%  $V_{DSS}$ .
- ⑦  $C_{oss \text{ eff. (ER)}}$  is a fixed capacitance that gives the same energy as  $C_{oss}$  while  $V_{DS}$  is rising from 0 to 80%  $V_{DSS}$ .
- ⑧ When mounted on 1" square PCB (FR-4 or G-10 Material). For recommended footprint and soldering techniques refer to application note #AN-994.
- ⑨  $R_\theta$  is measured at  $T_J$  approximately  $90^\circ\text{C}$ .
- ⑩  $R_{\theta JC}$  value shown is at time zero.

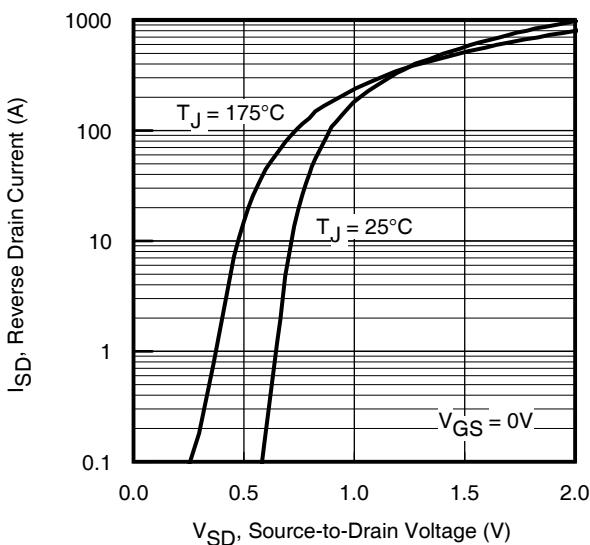
International  
**IR** Rectifier

**IRFB/S/SL3004PbF**

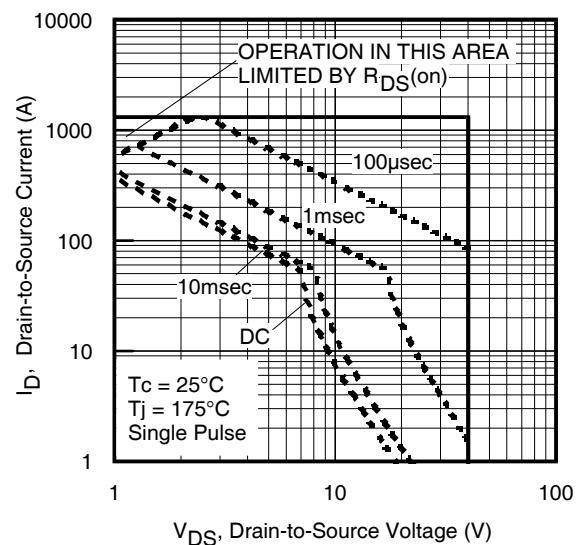


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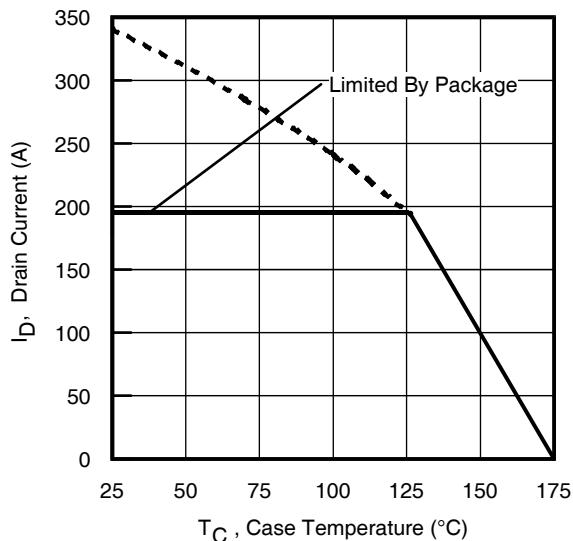
International  
 Rectifier



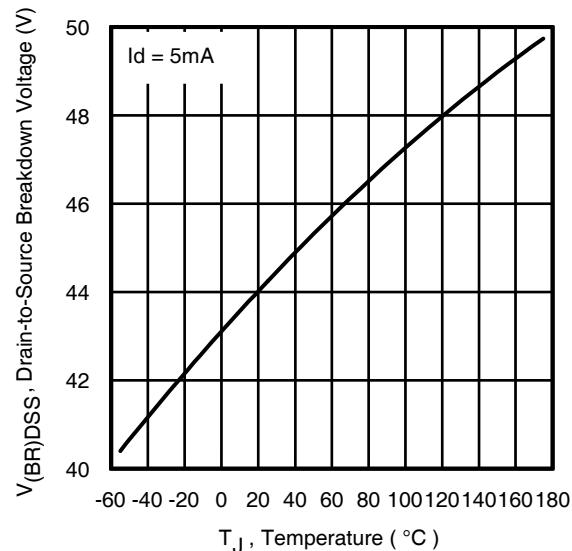
**Fig 7.** Typical Source-Drain Diode Forward Voltage



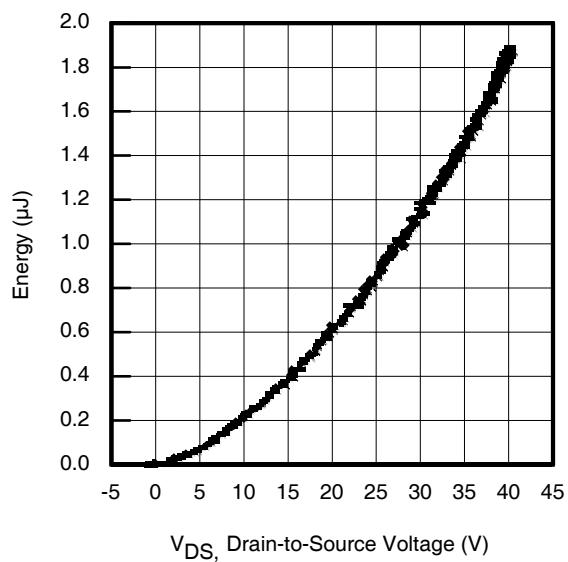
**Fig 8.** Maximum Safe Operating Area



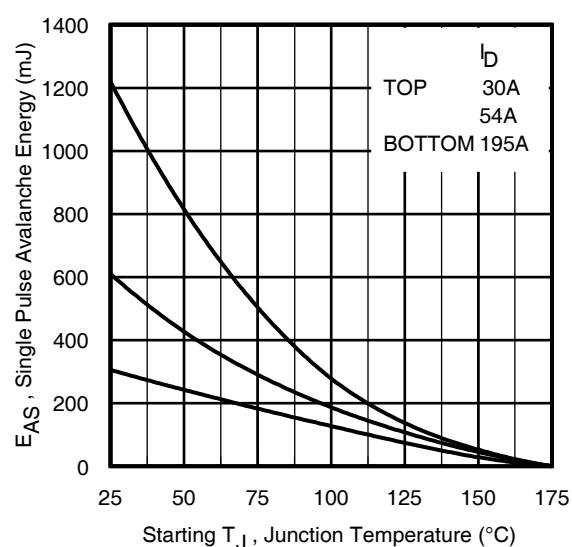
**Fig 9.** Maximum Drain Current vs. Case Temperature



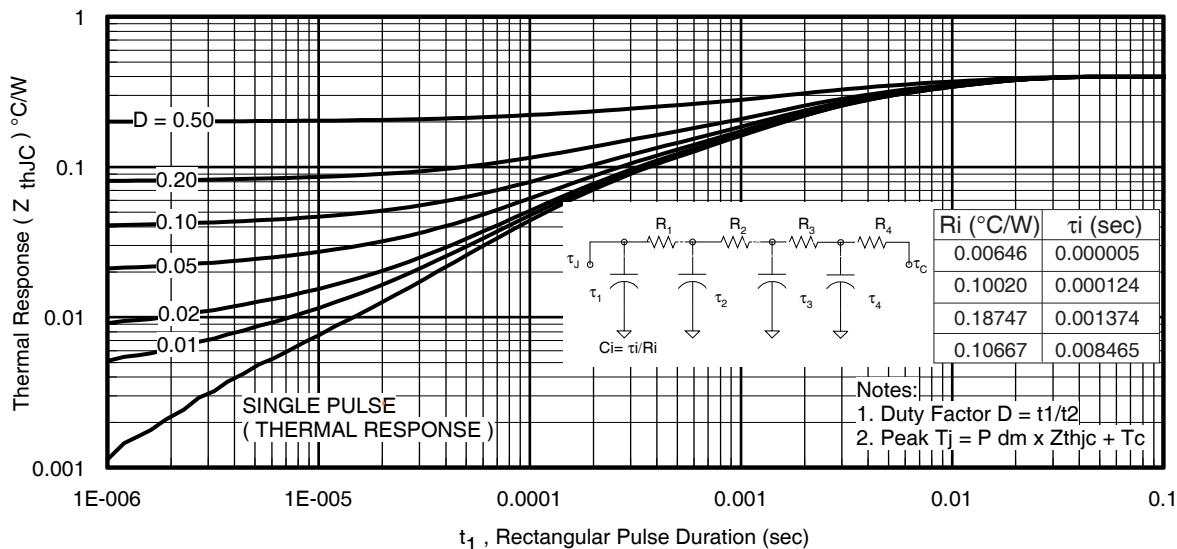
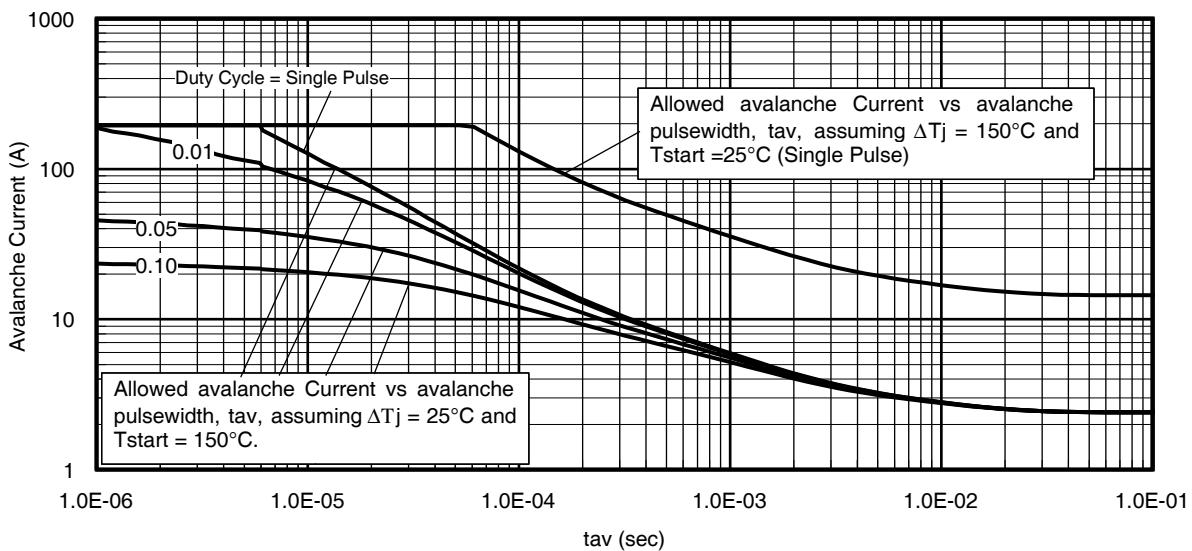
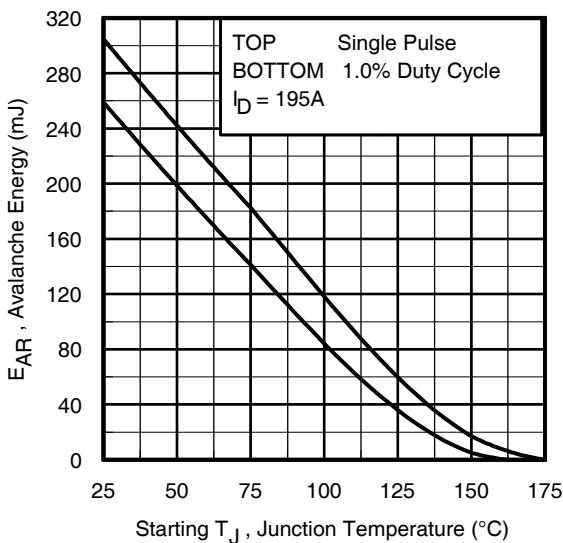
**Fig 10.** Drain-to-Source Breakdown Voltage



**Fig 11.** Typical  $C_{oss}$  Stored Energy



**Fig 12.** Maximum Avalanche Energy vs. Drain Current

**Fig 13.** Maximum Effective Transient Thermal Impedance, Junction-to-Case**Fig 14.** Typical Avalanche Current vs.Pulsewidth

Notes on Repetitive Avalanche Curves , Figures 14, 15:  
(For further info, see AN-1005 at [www.irf.com](http://www.irf.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 16a, 16b.
  4.  $P_{D(ave)}$  = Average power dissipation per single avalanche pulse.
  5. BV = Rated breakdown voltage (1.3 factor accounts for voltage increase during avalanche).
  6.  $I_{av}$  = Allowable avalanche current.
  7.  $\Delta T$  = Allowable rise in junction temperature, not to exceed  $T_{jmax}$  (assumed as  $25^{\circ}\text{C}$  in Figure 14, 15).
- $t_{av}$  = Average time in avalanche.  
 $D$  = Duty cycle in avalanche =  $t_{av} \cdot f$   
 $Z_{thJC}(D, t_{av})$  = Transient thermal resistance, see Figures 13

$$P_{D(ave)} = 1/2 (1.3 \cdot BV \cdot I_{av}) = \Delta T / Z_{thJC}$$

$$I_{av} = 2\Delta T / [1.3 \cdot BV \cdot Z_{th}]$$

$$E_{AS(AR)} = P_{D(ave)} \cdot t_{av}$$

**Fig 15.** Maximum Avalanche Energy vs. Temperature

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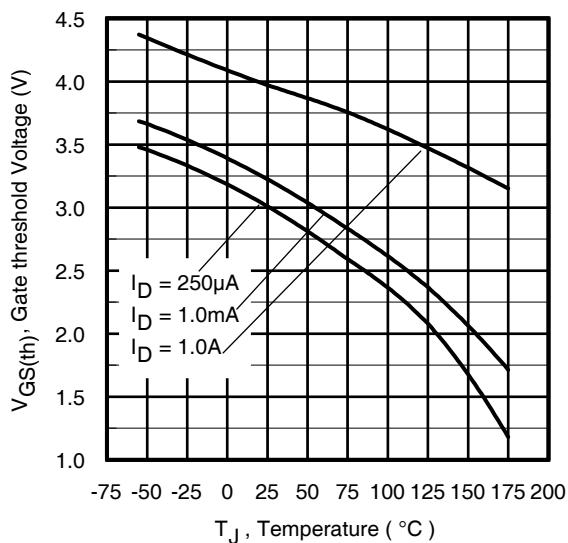
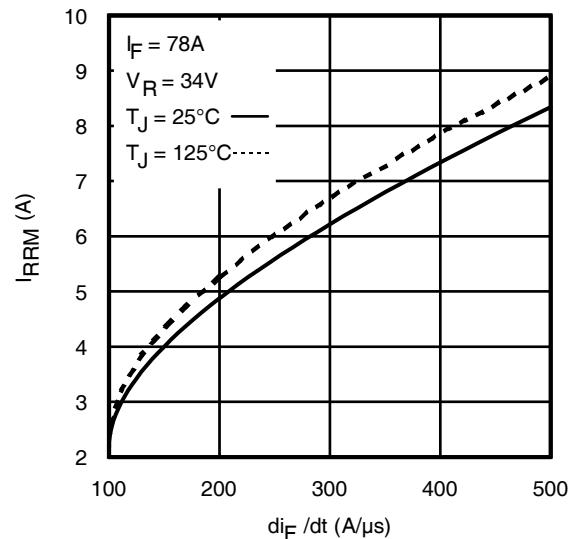
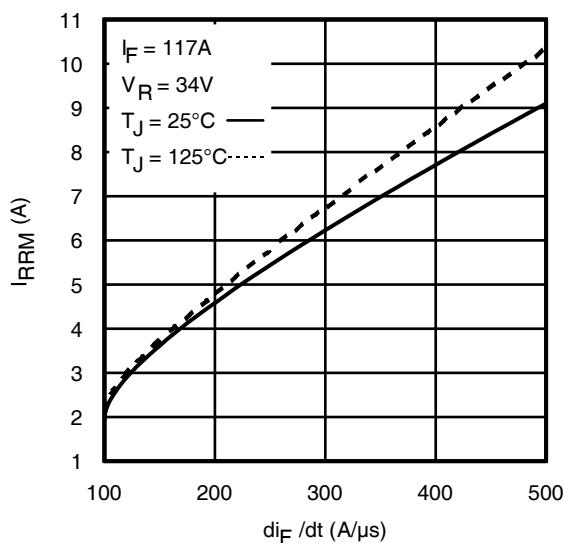
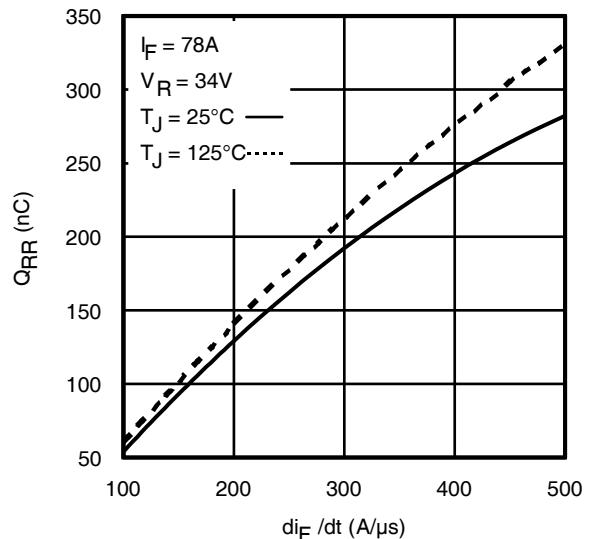
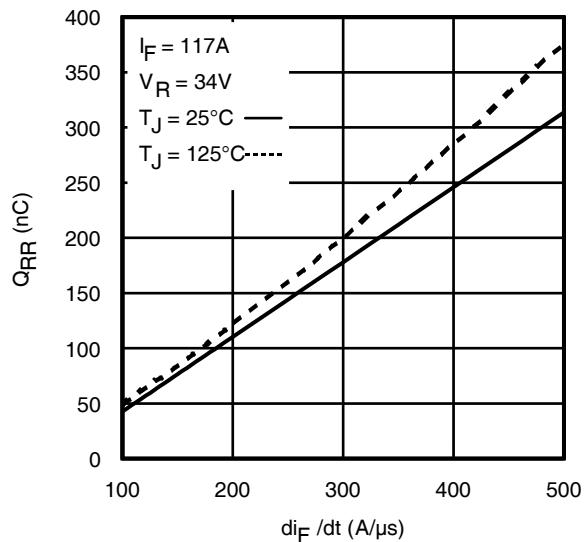
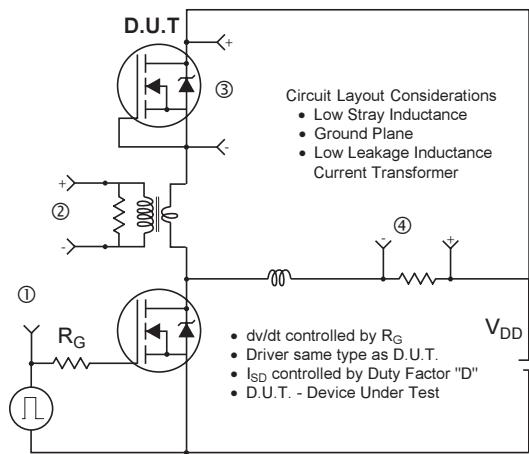


Fig. 16. Threshold Voltage vs. Temperature

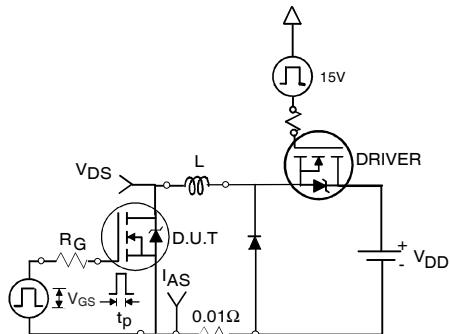
Fig. 17 - Typical Recovery Current vs. di<sub>f</sub>/dtFig. 18 - Typical Recovery Current vs. di<sub>f</sub>/dtFig. 19 - Typical Stored Charge vs. di<sub>f</sub>/dtFig. 20 - Typical Stored Charge vs. di<sub>f</sub>/dt

International  
**IR** Rectifier

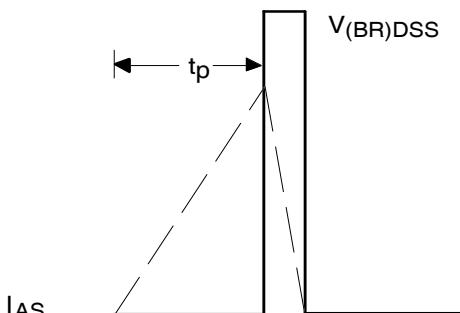
**IRFB/S/SL3004PbF**



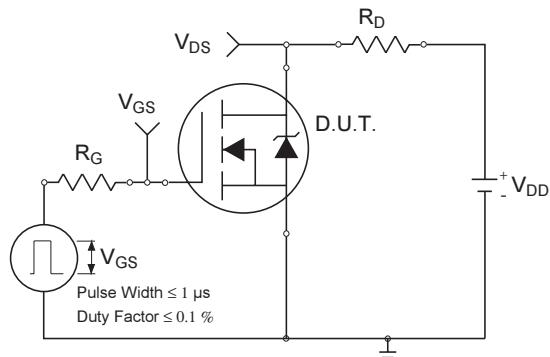
**Fig 21.** Peak Diode Recovery  $dv/dt$  Test Circuit for N-Channel HEXFET® Power MOSFETs



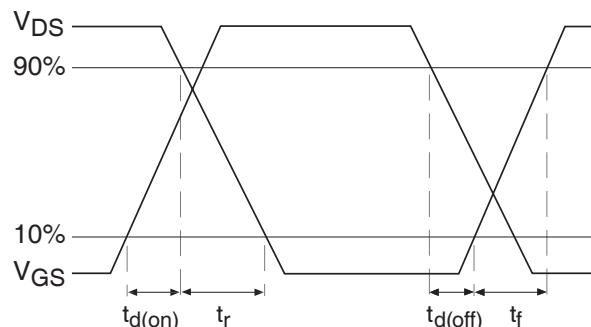
**Fig 22a.** Unclamped Inductive Test Circuit



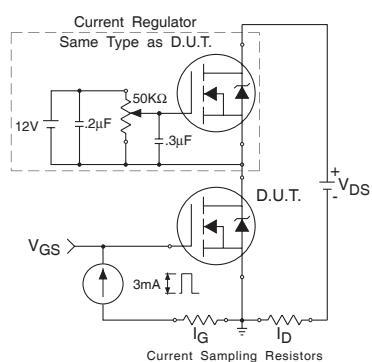
**Fig 22b.** Unclamped Inductive Waveforms



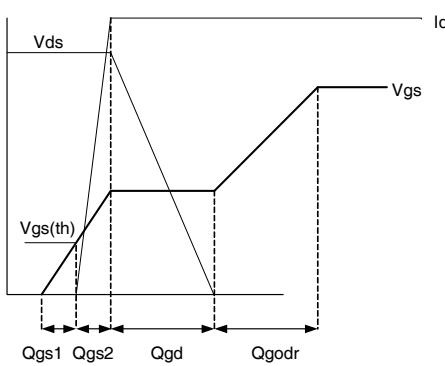
**Fig 23a.** Switching Time Test Circuit



**Fig 23b.** Switching Time Waveforms



**Fig 24a.** Gate Charge Test Circuit

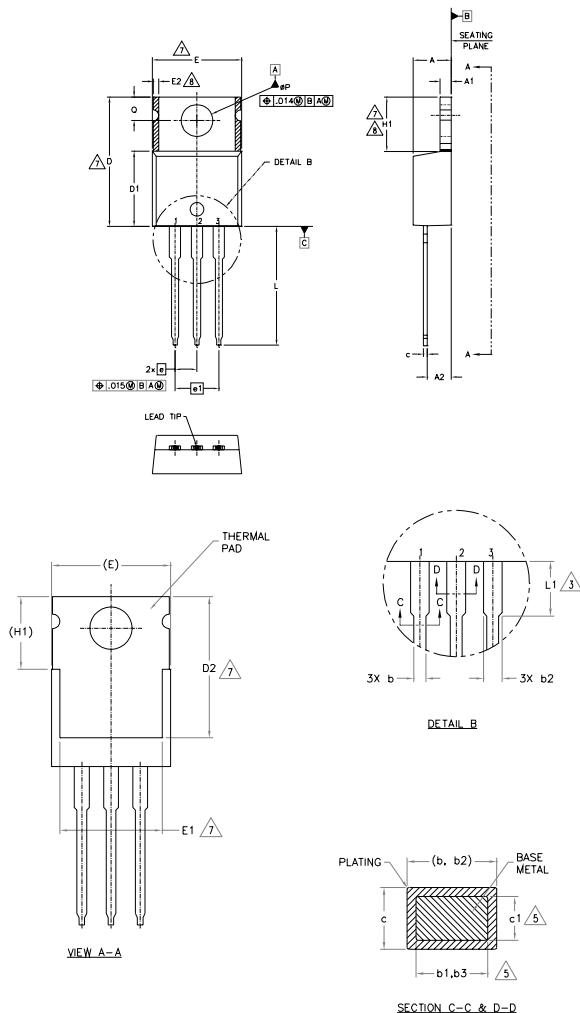


**Fig 24b.** Gate Charge Waveform

## IRFB/S/SL3004PbF

## TO-220AB Package Outline

Dimensions are shown in millimeters (inches)



NOTES:

- DIMENSIONING AND TOLERANCING AS PER ASME Y14.5 M- 1994.
- DIMENSIONS ARE SHOWN IN INCHES [MILLIMETERS].
- LEAD DIMENSION AND FINISH UNCONTROLLED IN L1.
- DIMENSION D, D1 & E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED .005" (0.127) PEAK SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY.
- DIMENSION b1, b3 & c1 APPLY TO BASE METAL ONLY.
- CONTROLLING DIMENSION : INCHES.
- THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSIONS E,H1,D2 & E1
- DIMENSION E2 X H1 DEFINE A ZONE WHERE STAMPING AND SINGULATION IRRREGULARITIES ARE ALLOWED.
- OUTLINE CONFORMS TO JEDEC TO-220, EXCEPT A2 (max.) AND D2 (min.) WHERE DIMENSIONS ARE DERIVED FROM THE ACTUAL PACKAGE OUTLINE.

SYMBOL	DIMENSIONS		NOTES	
	MILLIMETERS			
	MIN.	MAX.		
A	3.56	4.83	.140 .190	
A1	0.51	1.40	.020 .055	
A2	2.03	2.92	.080 .115	
b	0.38	1.01	.015 .040	
b1	0.38	0.97	.015 .038	
b2	1.14	1.78	.045 .070	
b3	1.14	1.73	.045 .068	
c	0.36	0.61	.014 .024	
c1	0.36	0.56	.014 .022	
D	14.22	16.51	.560 .650	
D1	8.38	9.02	.330 .355	
D2	11.68	12.88	.460 .507	
E	9.65	10.67	.380 .420	
E1	6.86	8.89	.270 .350	
E2	—	0.76	— .030	
e	2.54 BSC	—	.100 BSC	
e1	5.08 BSC	—	.200 BSC	
H1	5.84	6.86	.230 .270	
L	12.70	14.73	.500 .580	
L1	3.56	4.06	.140 .160	
QP	3.54	4.08	.139 .161	
Q	2.54	3.42	.100 .135	

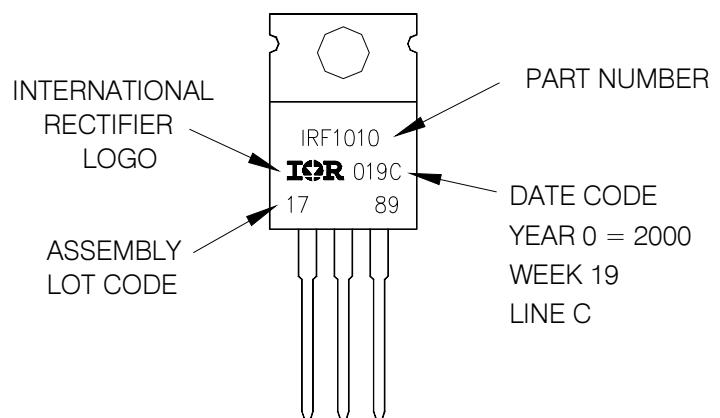
LEAD ASSIGNMENTS

HEXFET
1.- GATE
2.- DRAIN
3.- SOURCE
IGBTs, CoPACK
1.- GATE
2.- COLLECTOR
3.- Emitter
DIODES
1.- ANODE
2.- CATHODE
3.- ANODE

## TO-220AB Part Marking Information

EXAMPLE: THIS IS AN IRF1010

LOT CODE 1789

ASSEMBLED ON WW 19, 2000  
IN THE ASSEMBLY LINE "C"Note: "P" in assembly line position  
indicates "Lead - Free"

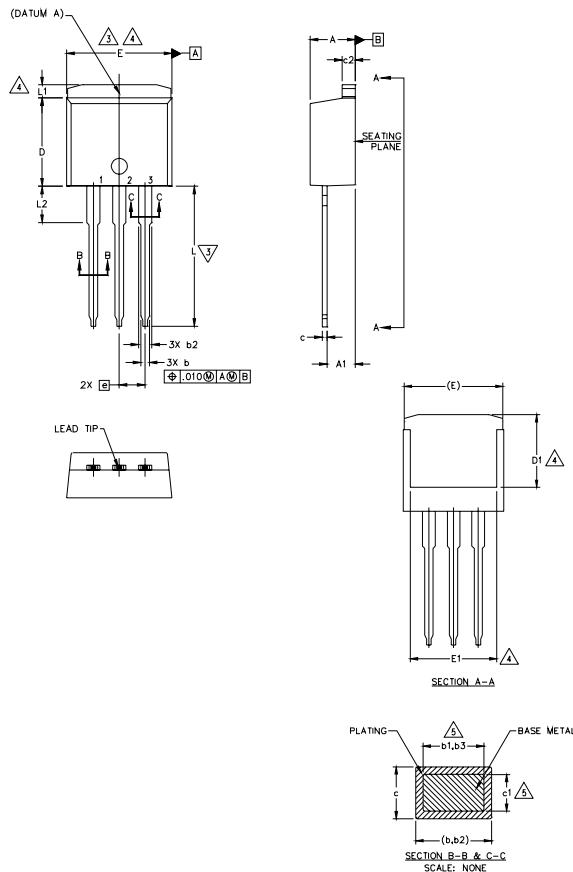
TO-220AB packages are not recommended for Surface Mount Application.

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

International  
**IR** Rectifier

## TO-262 Package Outline

Dimensions are shown in millimeters (inches)



NOTES:

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
- DIMENSIONS ARE SHOWN IN MILLIMETERS [INCHES]
- 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.
- Thermal pad contour optional within dimension E, L1, D1 & E1.
- Dimension b1 and c1 apply to base metal only.
- CONTROLLING DIMENSION: INCH.
- OUTLINE CONFORM TO JEDEC TO-262 EXCEPT A1(max.), b(min.) AND D1(min.) WHERE DIMENSIONS DERIVED THE ACTUAL PACKAGE OUTLINE.

SYMBOL	DIMENSIONS				NOTES	
	MILLIMETERS		INCHES			
	MIN.	MAX.	MIN.	MAX.		
A	4.06	4.83	.160	.190		
A1	2.03	3.02	.080	.119		
b	0.51	0.99	.020	.039		
b1	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	
E	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

- GATE
- DRAIN
- SOURCE
- DRAIN

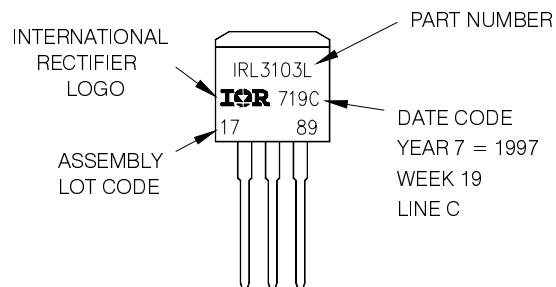
IGBTs, CoPACK

- GATE
- COLLECTOR
- EMITTER
- COLLECTOR

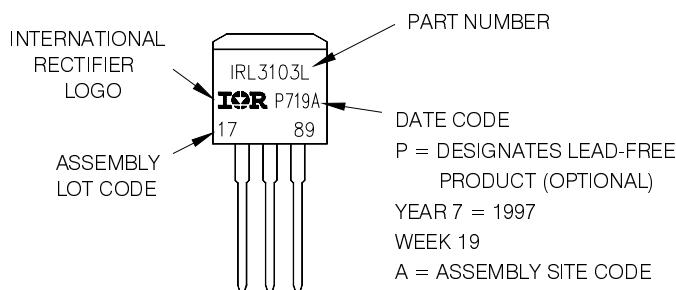
## TO-262 Part Marking Information

EXAMPLE: THIS IS AN IRL3103L  
LOT CODE 1789  
ASSEMBLED ON WW 19, 1997  
IN THE ASSEMBLY LINE "C"

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



OR



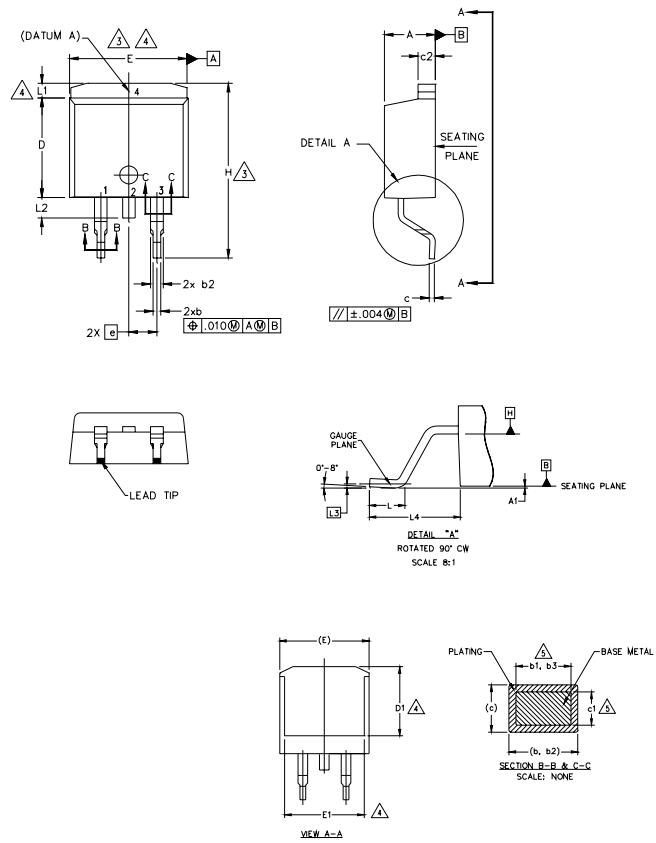
Note: For the most current drawing please refer to IR website at <http://www.irf.com/package/>

[www.irf.com](http://www.irf.com)

## IRFB/S/SL3004PbF

International  
**IR** RectifierD<sup>2</sup>Pak (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].
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 AT DATUM H.
4. THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSION E, L1, D1 & E1.
5. DIMENSION b1 AND c1 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.

SYMBOL	DIMENSIONS				NOTES
	MILLIMETERS		INCHES		
	MIN.	MAX.	MIN.	MAX.	
A	4.06	4.83	.160	.190	
A1	0.00	0.254	.000	.010	
b	0.51	0.99	.020	.039	
b1	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
E	9.65	10.67	.380	.420	3,4
E1	6.22	—	.245	—	4
e	2.54	BSC	.100	BSC	
H	14.61	15.88	.575	.625	
L	1.78	2.79	.070	.110	
L1	—	1.65	—	.066	4
L2	1.27	1.78	—	.070	
L3	0.25	BSC	.010	BSC	
L4	4.78	5.28	.188	.208	

## LEAD ASSIGNMENTS

## HEXFET

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

## IGBTs\_CoPACK

- 1.— GATE
- 2, 4.— COLLECTOR
- 3.— Emitter

## DIODES

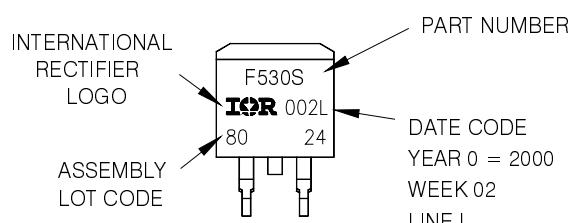
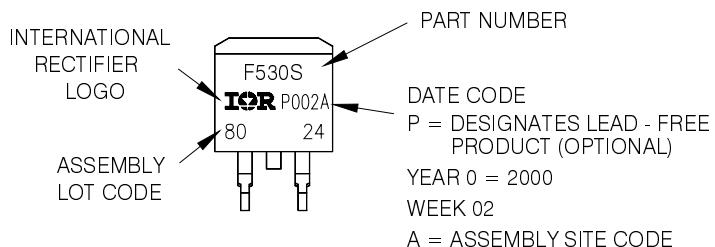
- 1.— ANODE \*
- 2, 4.— CATHODE
- 3.— ANODE

\* PART DEPENDENT.

D<sup>2</sup>Pak (TO-263AB) Part Marking Information

EXAMPLE: THIS IS AN IRF530S WITH  
LOT CODE 8024  
ASSEMBLED ON WW 02, 2000  
IN THE ASSEMBLY LINE "L"

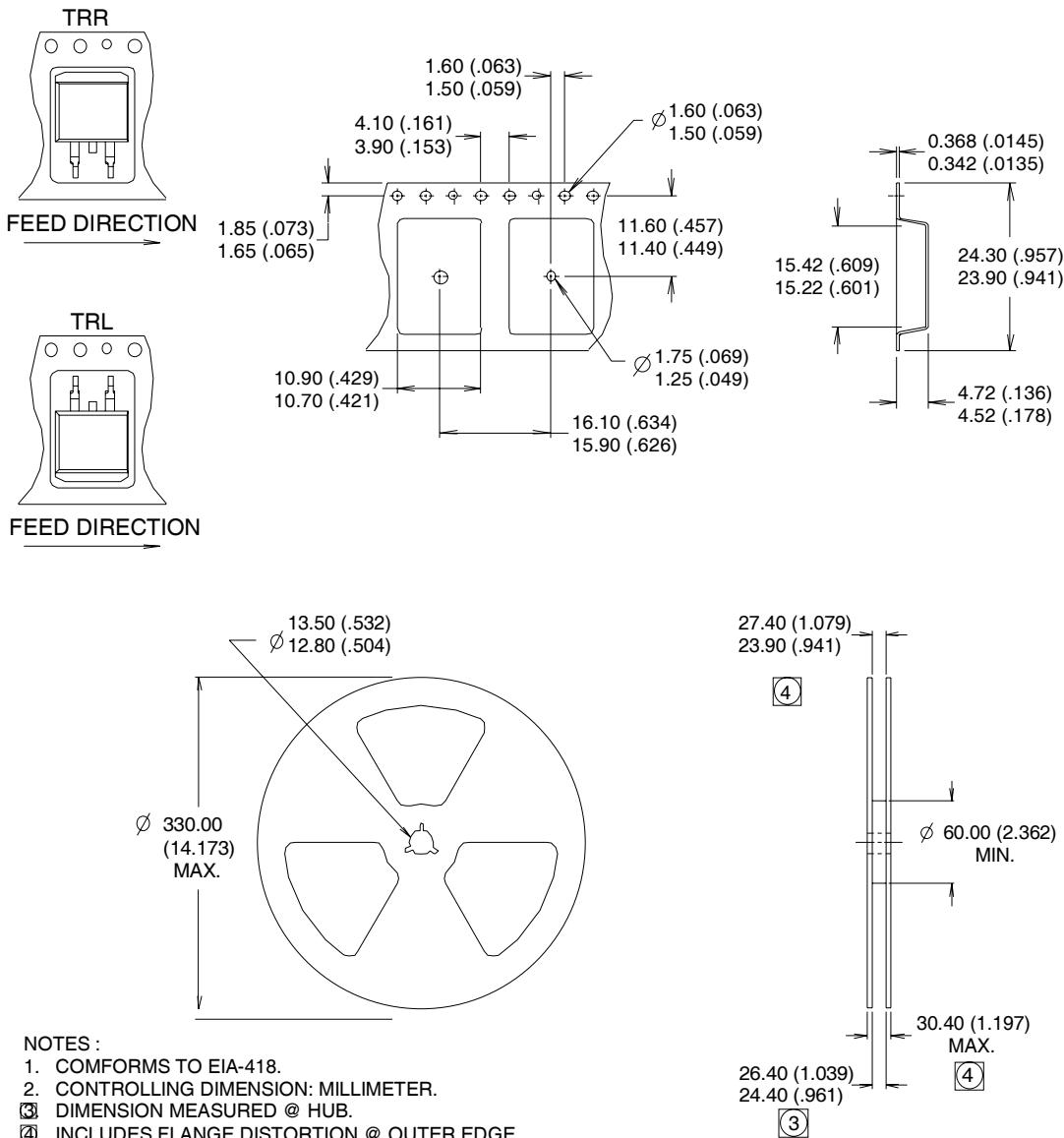
Note: "P" in assembly line position  
indicates "Lead - Free"

OR

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

D<sup>2</sup>Pak (TO-263AB) Tape & Reel Information

Dimensions are shown in millimeters (inches)

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

Data and specifications subject to change without notice.  
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Qualification Standards can be found on IR's Web site.

International  
**IR** Rectifier

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TAC Fax: (310) 252-7903

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