

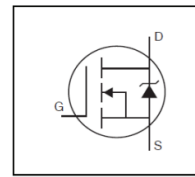
特性

- 先进工艺技术
- 超低导通电阻
- 工作温度 175°C
- 快速开关
- 允许达到 T_{jmax} 的重复雪崩
- 无铅，符合RoHS要求
- 汽车认证 *

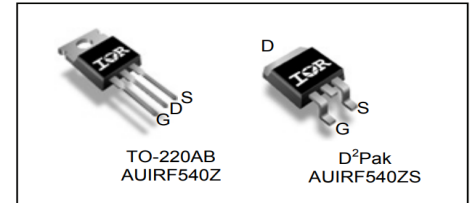
描述

这款 HEXFET® 功率MOSFET专为汽车应用而设计，采用最新的工艺技术实现单位硅面积极低的导通电阻。该设计的其他特点包括 175°C 工作结温、开关速度快和提高重复雪崩额定值。通过结合以上特点，使该设计成为一种极其高效和可靠的器件，可用于汽车应用和各种其他应用。

HEXFET®功率MOSFET



V_{DS}	100V
$R_{DS(on)}$ typ.	21mΩ
max.	26.5mΩ
I_D	36A



G	D	S
Gate	Drain	Source

Base part number	Package Type	Standard Pack		Orderable Part Number
		Form	Quantity	
AUIRF540Z	TO-220	Tube	50	AUIRF540Z
AUIRF540ZS	D²-Pak	Tube	50	AUIRF540ZS
		Tape and Reel Left	800	AUIRF540ZSTRL

绝对最大额定值

超过“绝对最大额定值”所列值的应力可能会对器件造成永久性损坏。这些仅仅是应力额定值，并不意味着器件在这些或任何其他超过该规范所示的条件下能够正常运行。延长暴露在绝对最大额定值条件的时间可能会影响器件的可靠性。热阻抗和功率耗散额定值是在装板和静止空气条件下测得的。环境温度 (T_A) 为 25°C，除非另有规定。

Symbol	Parameter	Max.	Units
I_D @ $T_C = 25^\circ\text{C}$	Continuous Drain Current, V_{GS} @ 10V (Silicon Limited)	36	A
I_D @ $T_C = 100^\circ\text{C}$	Continuous Drain Current, V_{GS} @ 10V (Silicon Limited)	25	
I_{DM}	Pulsed Drain Current ①	140	
P_D @ $T_C = 25^\circ\text{C}$	Maximum Power Dissipation	92	W
	Linear Derating Factor	0.61	W/°C
V_{GS}	Gate-to-Source Voltage	± 20	V
E_{AS}	Single Pulse Avalanche Energy (Thermally Limited) ②	83	mJ
E_{AS} (tested)	Single Pulse Avalanche Energy Tested Value ⑥	120	
I_{AR}	Avalanche Current ①	See Fig.15,16, 12a, 12b	A
E_{AR}	Repetitive Avalanche Energy ①		mJ
T_J	Operating Junction and	-55 to + 175	°C
T_{STG}	Storage Temperature Range		
	Soldering Temperature, for 10 seconds (1.6mm from case)	300	
	Mounting torque, 6-32 or M3 screw⑦	10 lbf•in (1.1N•m)	

热阻抗

Symbol	Parameter	Typ.	Max.	Units
$R_{\theta JC}$	Junction-to-Case	---	1.64	°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, steady state) ⑧		40	

HEXFET® 是英飞凌的注册商标。

*认证标准可在 www.infineon.com 上找到

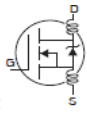
本数据手册的原文使用英文撰写。为方便起见，英飞凌提供了译文；由于翻译过程中可能使用了自动化工具，英飞凌不保证译文的准确性。为确认准确性，请务必访问 infineon.com 参考最新的英文版本（控制文档）。

静态参数特性在 $T_J = 25^\circ\text{C}$ 时测得（除非另有规定）

	Parameter	Min.	Typ.	Max.	Units	Conditions
$V_{(BR)DSS}$	Drain-to-Source Breakdown Voltage	100	---	---	V	$V_{GS} = 0V, I_D = 250\mu A$
$\Delta V_{(BR)DSS}/\Delta T_J$	Breakdown Voltage Temp. Coefficient	---	0.093	---	V/ $^\circ\text{C}$	Reference to $25^\circ\text{C}, I_D = 1mA$
$R_{DS(on)}$	Static Drain-to-Source On-Resistance	---	21	26.5	m Ω	$V_{GS} = 10V, I_D = 22A$ ③
$V_{GS(th)}$	Gate Threshold Voltage	2.0	---	4.0	V	$V_{DS} = V_{GS}, I_D = 250\mu A$
g_{fs}	Forward Trans conductance	36	---	---	S	$V_{DS} = 25V, I_D = 22A$
I_{DSS}	Drain-to-Source Leakage Current	---	---	20	μA	$V_{DS} = 100V, V_{GS} = 0V$
		---	---	250		$V_{DS} = 100V, V_{GS} = 0V, T_J = 125^\circ\text{C}$
I_{GSS}	Gate-to-Source Forward Leakage	---	---	200	nA	$V_{GS} = 20V$
	Gate-to-Source Reverse Leakage	---	---	-200		$V_{GS} = -20V$

动态电气特性在 $T_J = 25^\circ\text{C}$ 时测得（除非另有规定）

Q_g	Total Gate Charge	---	42	63	nC	$I_D = 22A, V_{DS} = 80V$ $V_{GS} = 10V$ ③
Q_{gs}	Gate-to-Source Charge	---	9.7	---		
Q_{gd}	Gate-to-Drain Charge	---	15	---		
$t_{d(on)}$	Turn-On Delay Time	---	15	---	ns	$V_{DD} = 50V, I_D = 22A, R_G = 12\Omega$ $V_{GS} = 10V$ ③
t_r	Rise Time	---	51	---		
$t_{d(off)}$	Turn-Off Delay Time	---	43	---		
t_f	Fall Time	---	39	---		
L_D	Internal Drain Inductance	---	4.5	---	nH	Between lead, 6mm (0.25in.) from package and center of die contact
L_S	Internal Source Inductance	---	7.5	---		
C_{iss}	Input Capacitance	---	1770	---	pF	$V_{GS} = 0V, V_{DS} = 25V$ $f = 1.0MHz$, See Fig. 5 $V_{GS} = 0V, V_{DS} = 1.0V, f = 1.0MHz$ $V_{GS} = 0V, V_{DS} = 80V, f = 1.0MHz$ $V_{GS} = 0V, V_{DS} = 0V$ to $80V$ ④
C_{oss}	Output Capacitance	---	180	---		
C_{rss}	Reverse Transfer Capacitance	---	100	---		
C_{oss}	Output Capacitance	---	730	---		
C_{oss}	Output Capacitance	---	110	---		
$C_{oss\ eff.}$	Effective Output Capacitance	---	170	---		



二极管特性

	Parameter	Min.	Typ.	Max.	Units	Conditions
I_S	Continuous Source Current (Body Diode)	---	---	36	A	MOSFET symbol showing the integral reverse p-n junction diode.
I_{SM}	Pulsed Source Current (Body Diode) ①	---	---	140		
V_{SD}	Diode Forward Voltage	---	---	1.3	V	$T_J = 25^\circ\text{C}, I_S = 22A, V_{GS} = 0V$ ③
t_{rr}	Reverse Recovery Time	---	33	50	ns	$T_J = 25^\circ\text{C}, I_F = 22A, V_{DD} = 50V$
Q_{rr}	Reverse Recovery Charge	---	41	62	nC	$di/dt = 100A/\mu s$ ③
t_{on}	Forward Turn-On Time	Intrinsic turn-on time is negligible (turn-on is dominated by $L_S + L_D$)				

注:

- ① 重复额定值；脉冲宽度受最高结温限制。（见图11）
- ② 受 T_{Jmax} 限制，初始 $T_J = 25^\circ\text{C}$ 、 $L = 0.46mH$ 、 $R_G = 25\Omega$ 、 $I_{AS} = 20A$ 、 $V_{GS} = 10V$ 。不建议在高于此值的情况运行器件。
- ③ 脉冲宽度 $\leq 1.0ms$ ；占空比 $\leq 2\%$ 。
- ④ $C_{oss\ eff.}$ 是一个固定电容值，当 V_{DS} 从 0 上升至 $80\% V_{DSS}$ 时，其充电时间与 C_{oss} 相同。
- ⑤ 受 T_{Jmax} 限制，典型重复的雪崩性能见图12a、12b、15、16。
- ⑥ 该值由样片故障总数确定， $T_J = 25^\circ\text{C}$ 、 $L = 0.46mH$ 、 $R_G = 25\Omega$ 、 $I_{AS} = 20A$ 、 $V_{GS} = 10V$ 。
- ⑦ 仅适用于 TO-220AB 封装。
- ⑧ 这适用于安装在 1 平方英寸 PCB（FR-4 或 G-10 材料）上的 D²Pak。有关推荐的封装和焊接技术，请参阅应用手册 #AN-994

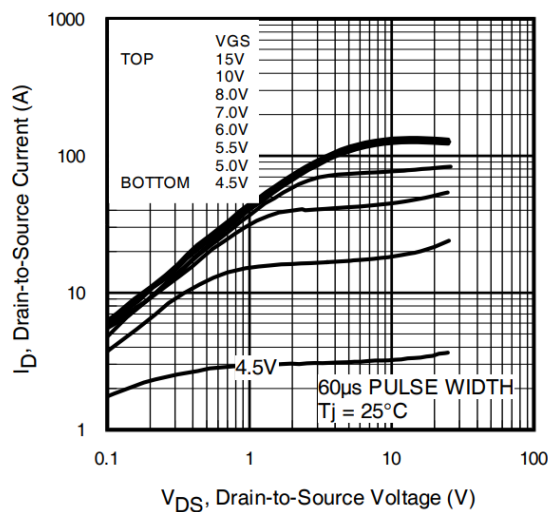


图 1 典型输出特性

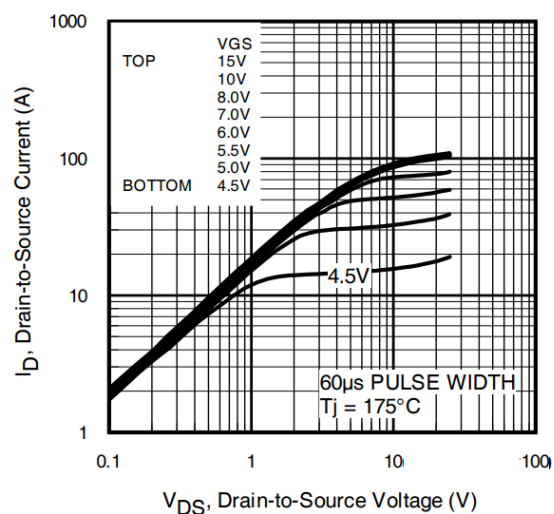


图 2 典型输出特性

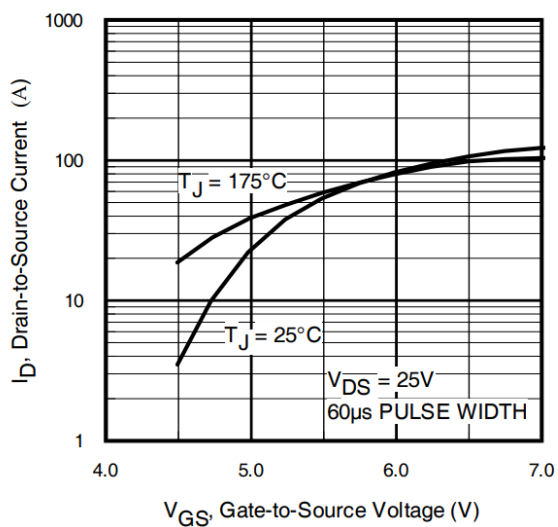


图 3 典型转移特性

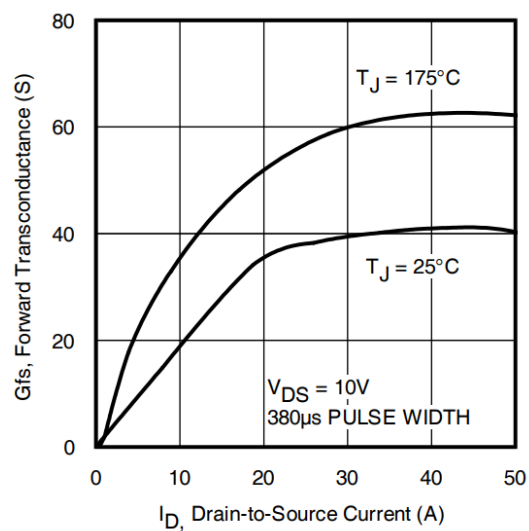


图 4 典型正向跨导与漏极电流关系曲线

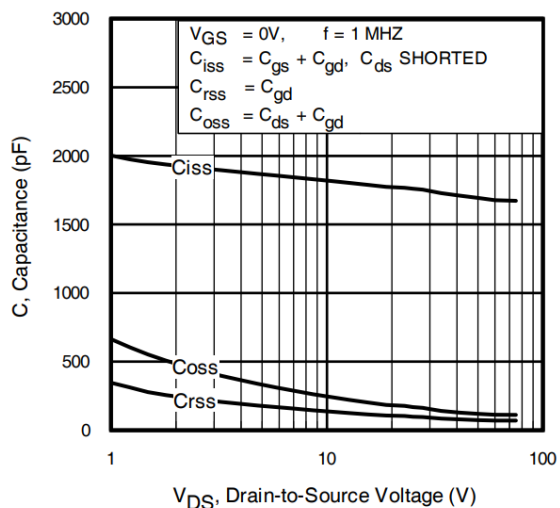


图 5.典型电容与漏源电压关系曲

线

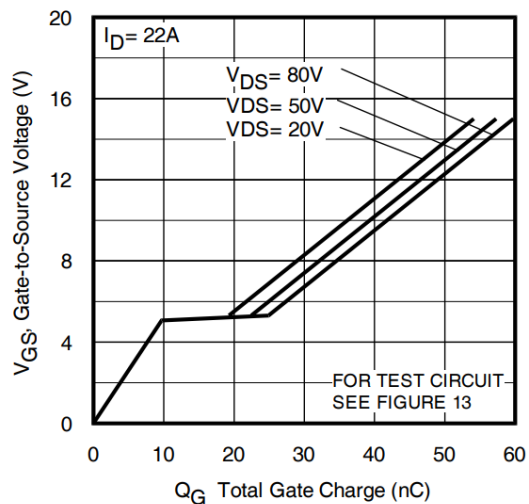


图 6.典型栅极电荷与栅源电压

关系曲线

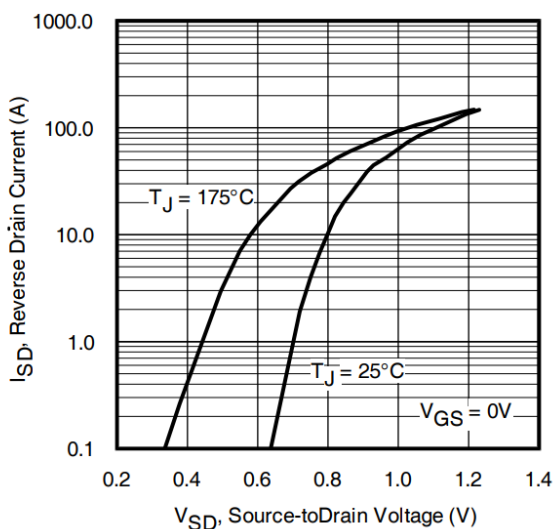


图 7典型源漏二极管正向电压

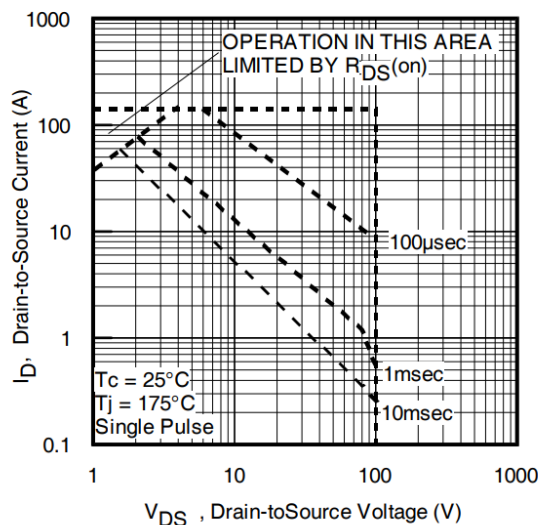


图 8.最大安全工作区

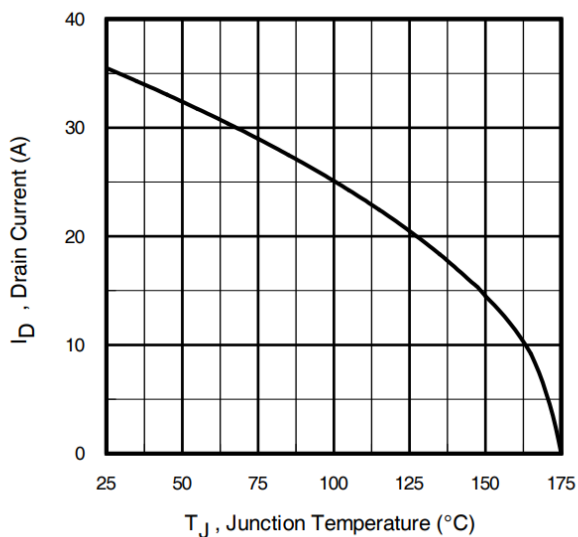


图 9.最大漏极电流与壳温的关系曲线

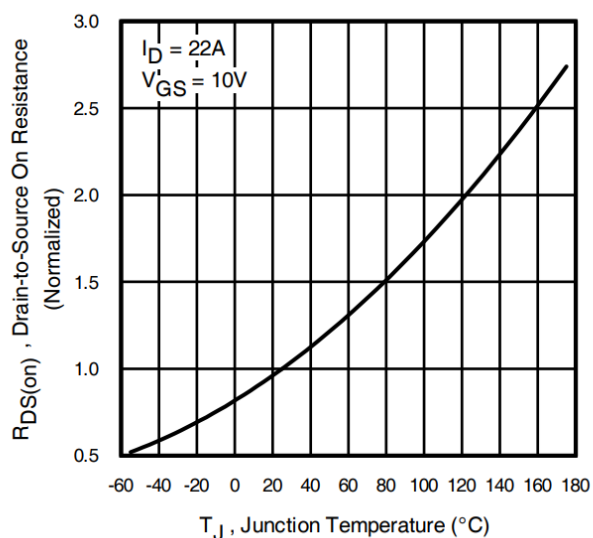


图 10.归一化导通电阻与温度的关系曲线

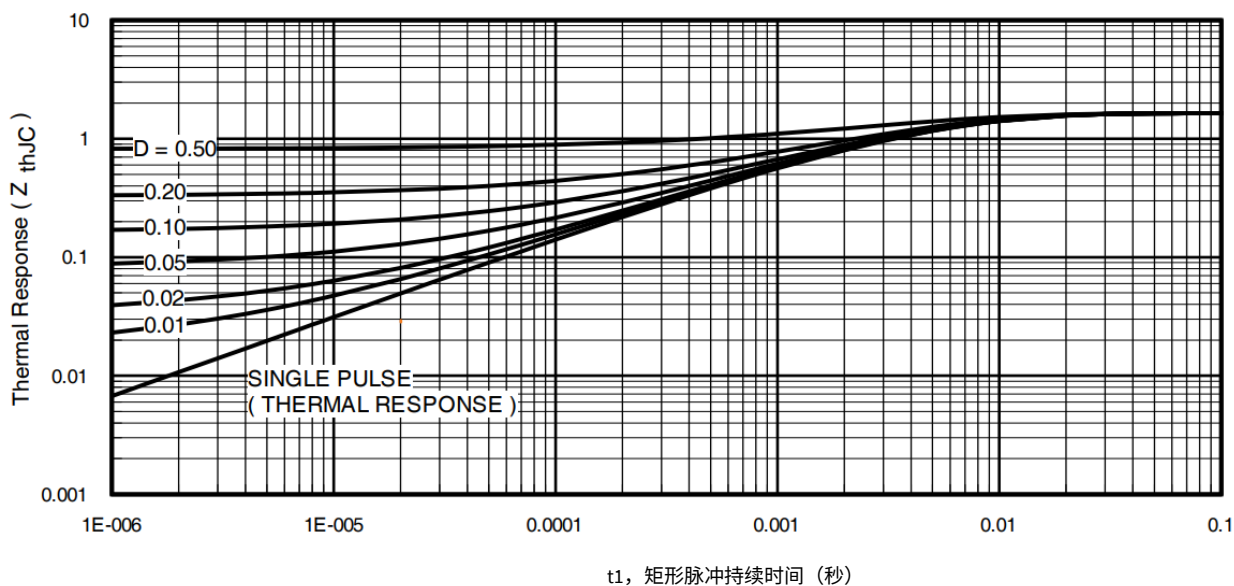
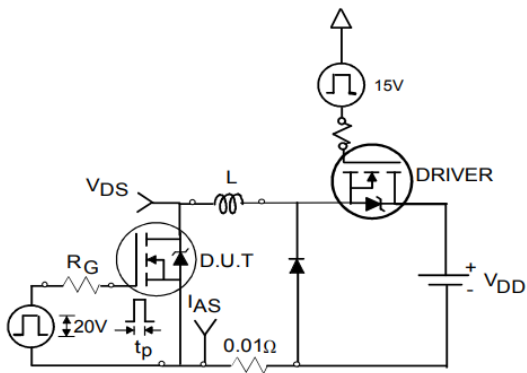
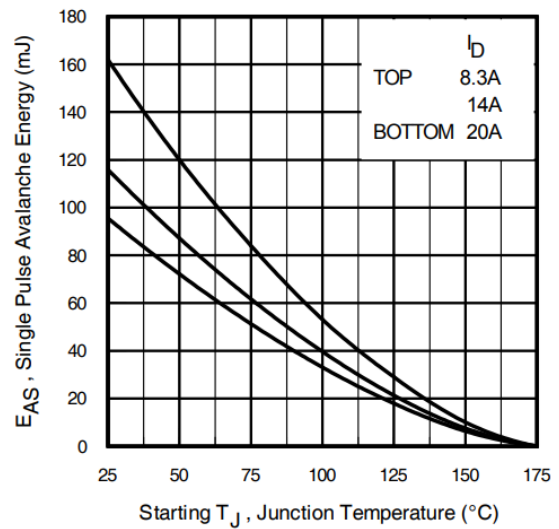
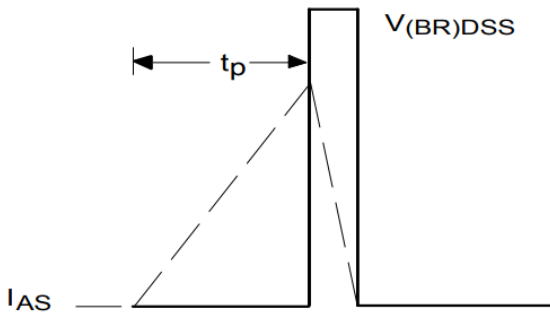
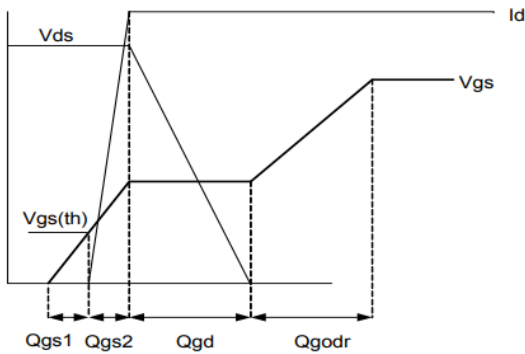
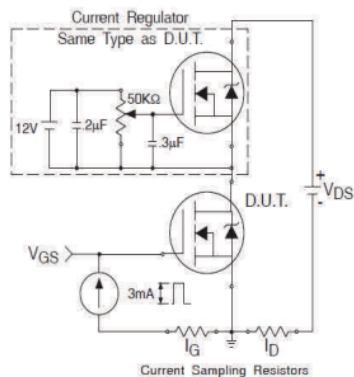
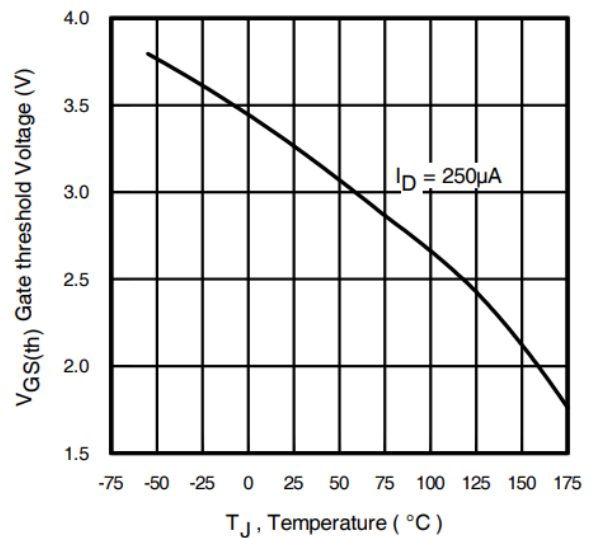


图 11.最大有效瞬态热阻，结到壳


Fig 12a. Unclamped Inductive Test Circuit

Fig 12c. Maximum Avalanche Energy vs. Drain Current

Fig 12b. Unclamped Inductive Waveforms

Fig 13a. Gate Charge Waveform

Fig 13b. Gate Charge Test Circuit

Fig 14. Threshold Voltage vs. Temperature

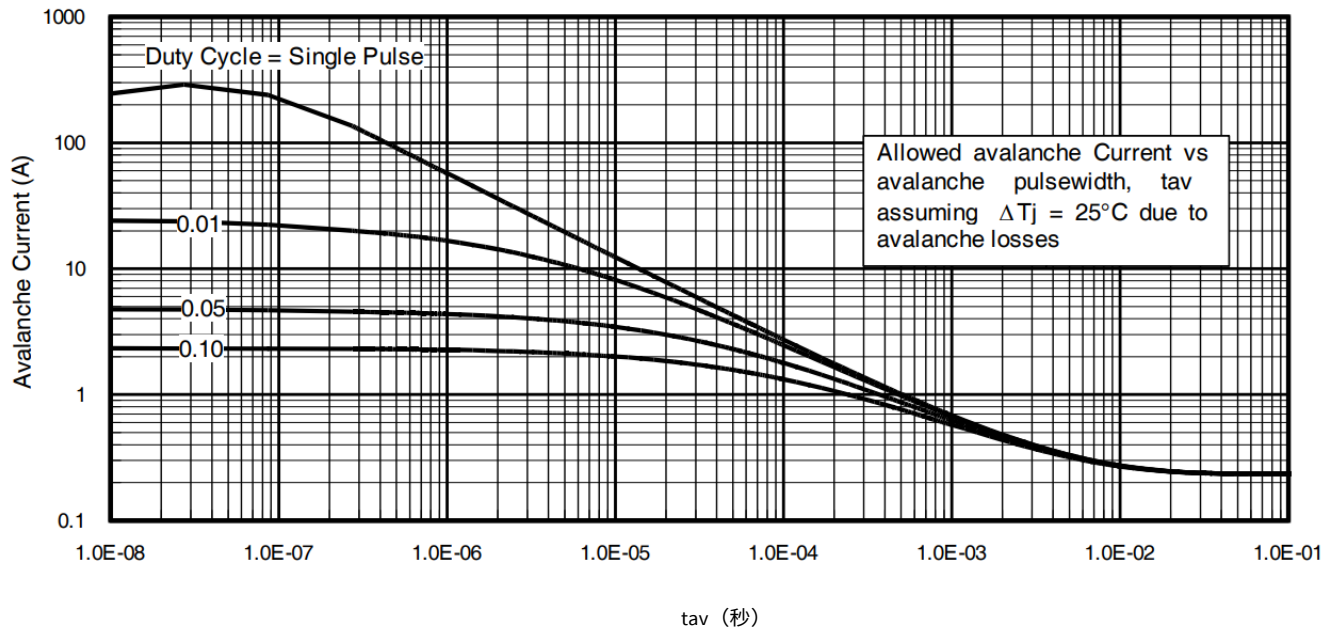


图 15.典型雪崩电流与脉冲宽度

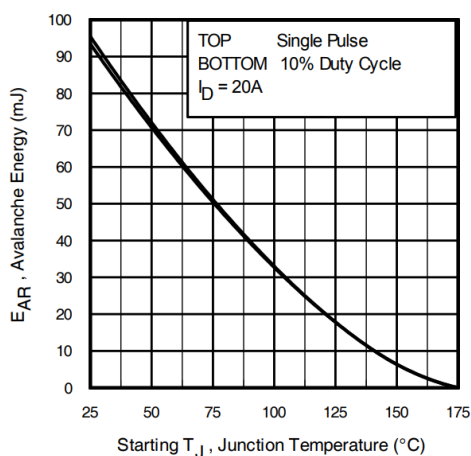


图 16.最大雪崩能量与温度的关系曲线

关于重复雪崩曲线的注释，图 15、16：（更多信息，请参阅 www.infineon.com 上的 AN-1005）

1. 雪崩失效假设：
纯粹的热现象和失效发生在结温远超 T_{jmax} 的情况下。这对每种零件类型都是有效的。
 2. 只要不超过 T_{jmax} ，就可以在雪崩中安全运行。
 3. 如下公式基于图 12a、12b 所示的电路和波形。
 4. $P_D(ave)$ = 每个雪崩脉冲的平均功率耗散。
 5. BV = 额定击穿电压（1.3 倍系数，考虑雪崩期间的电压增加）。
 6. I_{av} = 可允许的雪崩电流。
 7. ΔT = 可允许的结温上升，不得超过 T_{jmax} （图 15、16 中假设为 $25^\circ C$ ）。
- t_{av} = 雪崩的平均时间。
- D = 雪崩占空比 = $t_{av} \cdot f$
- $Z_{thJC}(D, t_{av})$ = 瞬态热阻抗，见图 13)

$$P_D(ave) = \frac{1}{2} (1.3 \cdot BV \cdot I_{av}) = \frac{\Delta T}{Z_{thJC} I_{av}} = \frac{2\Delta T}{[1.3 \cdot BV \cdot Z_{th}]}$$

$$EAS(AR) = P_D(ave) \cdot t_{av}$$

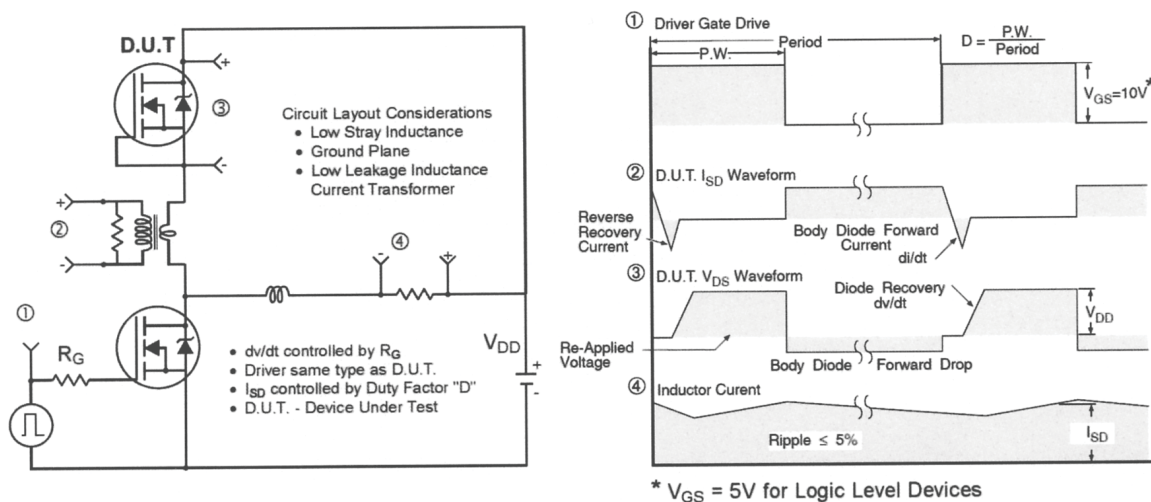


图 17. N 沟道 HEXFET® 功率 MOSFET 体内二极管峰值恢复 dv/dt 测试电路

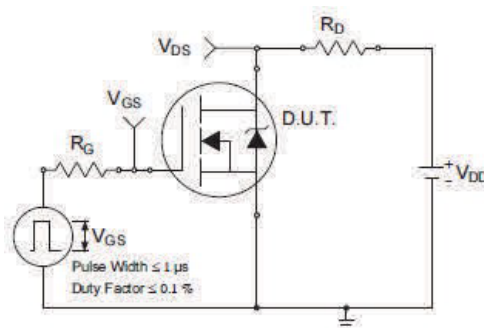


图 18a.开关时间测试电路

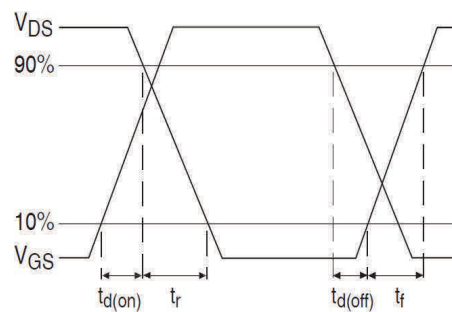
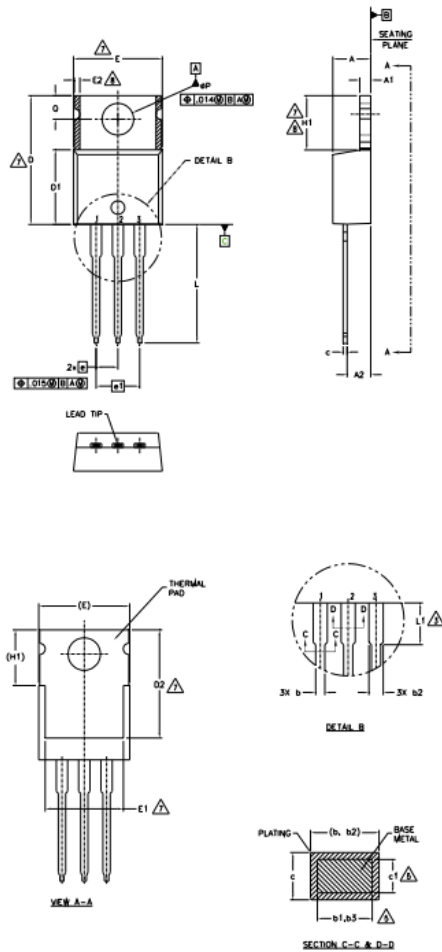


图 18b.开关时间波形

TO-220AB 封装外形 (尺寸以毫米 (英寸) 为单位)

NOTES:

- 1.- DIMENSIONING AND TOLERANCING AS PER ASME Y14.5 M- 1994.
- 2.- DIMENSIONS ARE SHOWN IN INCHES [MILLIMETERS].
- 3.- LEAD DIMENSION AND FINISH UNCONTROLLED IN L1.
- 4.- DIMENSION D, D1 & 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.
- 5.- DIMENSION b1, b3 & c1 APPLY TO BASE METAL ONLY.
- 6.- 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.
- 9.- 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		INCHES			
	MIN.	MAX.	MIN.	MAX.		
A	3.56	4.83	.140	.190	5	
A1	1.14	1.40	.045	.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	5	
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		4
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	7	
E2	-	0.76	-	.030		
e	2.54 BSC		.100 BSC			8
e1	5.08 BSC		.200 BSC			
H1	5.84	6.86	.230	.270		
L	12.70	14.73	.500	.580	3	
L1	3.56	4.06	.140	.160		
øP	3.54	4.08	.139	.161		
Q	2.54	3.42	.100	.135		

LEAD ASSIGNMENTS
HEXFET

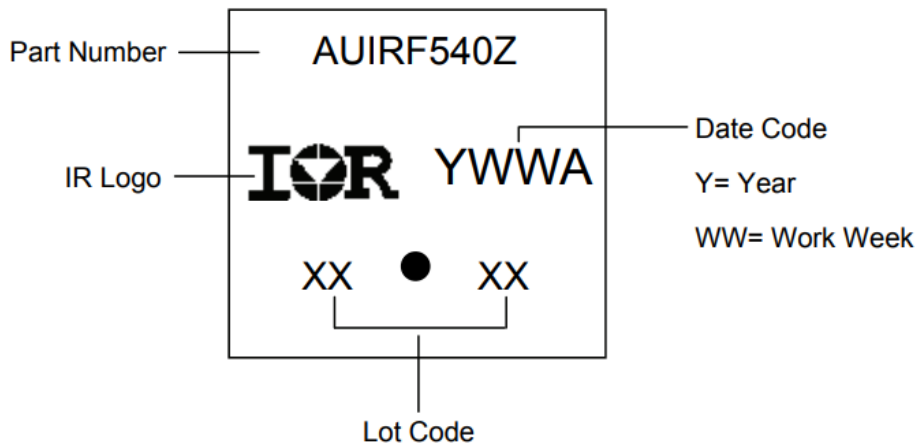
- 1.- GATE
- 2.- DRAIN
- 3.- SOURCE

IGBTs, CoPACK

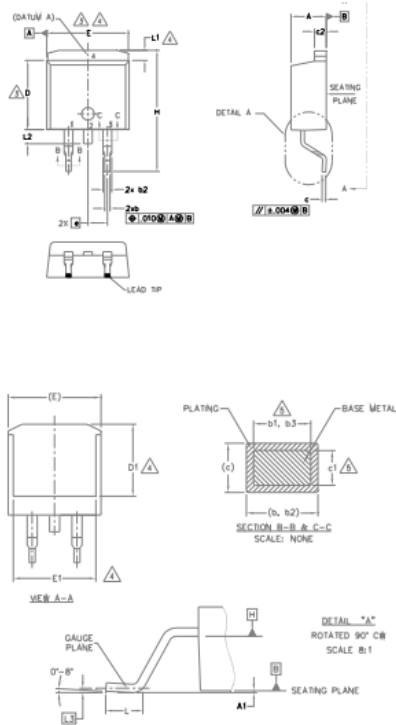
- 1.- GATE
- 2.- COLLECTOR
- 3.- EMITTER

DIODES

- 1.- ANODE
- 2.- CATHODE
- 3.- ANODE

TO-220AB 零件标识信息


TO-220AB 封装不建议用于表面贴装应用。

D² Pak (TO-263AB) 封装外形 (尺寸以毫米 (英寸) 为单位)

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 [0.005"] 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, b3 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	5
A1	0.00	0.254	.000	.010	
b	0.51	0.99	.020	.039	
b1	0.51	0.89	.020	.035	
b2	1.14	1.78	.045	.070	
b3	1.14	1.73	.045	.068	5
c	0.38	0.74	.015	.029	5
c1	0.38	0.58	.015	.023	
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	—	1.68	—	.066	4
L2	—	1.78	—	.070	
L3	0.25 BSC		.010 BSC		

LEAD ASSIGNMENTS
DIODES

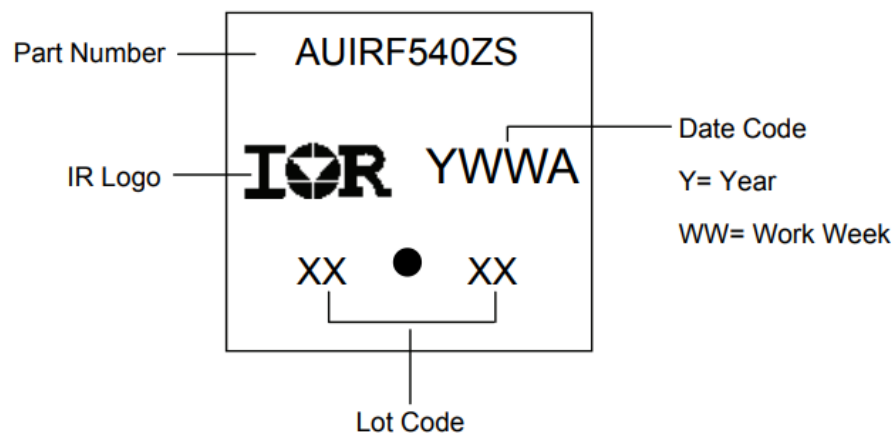
- 1.- ANODE (TWO DIE) / OPEN (ONE DIE)
- 2.- CATHODE
- 3.- ANODE

HEXFET

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

IGBTs, CoPACK

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

D² Pak (TO-263AB) 零件信息标识


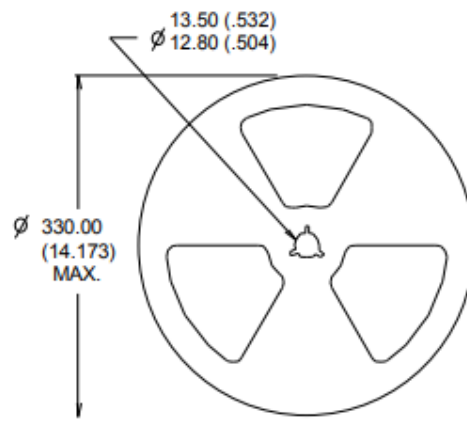
The technical drawing illustrates the dimensions of a 200-ton die casting machine. It includes three views: a front view (top left), a side view (bottom left), and a top view (center). Dimensions are provided in millimeters (mm) and inches (in).

Front View (Top Left): Labeled "TRR" at the top. It shows a rectangular frame with two vertical rods extending downwards. The "FEED DIRECTION" is indicated by an arrow pointing to the right.

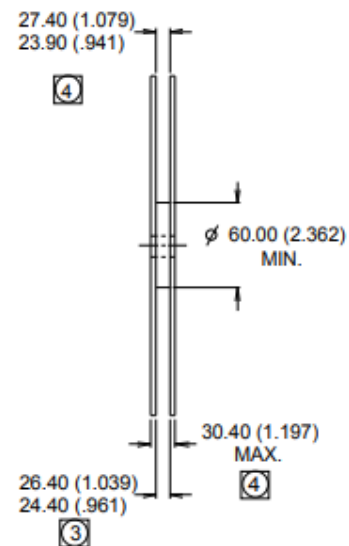
Side View (Bottom Left): Labeled "TRL" at the top. It shows a similar rectangular frame with two vertical rods. The "FEED DIRECTION" is indicated by an arrow pointing to the right.

Top View (Center): This view shows the plan of the machine. Key dimensions include:

- Overall width: 1.60 (.063) mm / 1.50 (.059) in.
- Distance from left edge to center of first rod: 4.10 (.161) mm / 3.90 (.153) in.
- Distance from left edge to center of second rod: 1.85 (.073) mm / 1.65 (.065) in.
- Distance between centers of rods: 11.60 (.457) mm / 11.40 (.449) in.
- Radius of the outer corner: $\phi 1.60 (.063)$ mm / $\phi 1.50 (.059)$ in.
- Radius of the inner corner: $\phi 1.75 (.069)$ mm / $\phi 1.25 (.049)$ in.
- Distance from right edge to center of second rod: 10.90 (.429) mm / 10.70 (.421) in.
- Distance from right edge to center of first rod: 16.10 (.634) mm / 15.90 (.626) in.
- Distance from right edge to center of third rod: 15.42 (.609) mm / 15.22 (.601) in.
- Distance from right edge to center of fourth rod: 24.30 (.957) mm / 23.90 (.941) in.
- Distance from right edge to center of fifth rod: 0.368 (.0145) mm / 0.342 (.0135) in.
- Distance from right edge to center of sixth rod: 4.72 (.136) mm / 4.52 (.178) in.



- NOTES :
1. CONFORMS TO EIA-418.
 2. CONTROLLING DIMENSION: MILLIMETER.
 3. DIMENSION MEASURED @ HUB.
 4. INCLUDES FLANGE DISTORTION @ OUTER EDGE.



Qualification Information

Qualification Level		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		TO-220AB	N/A
		D ² -Pak	MSL1
ESD	Machine Model	Class M4 (400V) [†] AEC-Q101-002	
	Human Body Model	Class H1B (1000V) [†] AEC-Q101-001	
	Charged Device Model	Class C3 (750V) [†] AEC-Q101-005	
RoHS Compliant		Yes	

† 最高通过电压。

修订记录

Date	Comments
9/30/2015	- Updated datasheet with corporate template - Corrected ordering table on page 1.
09/22/2017	Corrected typo error on part marking on pages 9,10.

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