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

Symbol		Conditions	Min.	Typ.	Max.	Unit
Off Characteristics						
$V_{(BR)DSS}$			60	-	-	V
I_{DSS}			-	-	1.0	μA
I_{GSS}			-	-	±100	nA
$V_{GS(th)}$			1.1	1.5	2.0	V
$R_{DS(ON)}$	Static Drain-Source ON-Resistance[4]		-	7.7	10.0	mΩ
			-	8.9	11.5	mΩ
R_g	Gate Resistance	f = 1MHz	-	2.2	-	Ω
C_{iss}		V_{GS} = 0V, V_{DS} = 30V, f = 1MHz	-	4160	-	pF
C_{oss}			-	184	-	pF
C_{rss}			-	148	-	pF
Q_g		V_{GS} = 0 to 10V V_{DS} = 30V, I_D = 20A	-	77	-	nC
Q_{gs}			-	14	-	nC
Q_{gd}			-	13	-	nC
$t_{d(on)}$		V_{GS} = 10V, V_{DD} = 30V I_D= 20A, R_{GEN} = 3Ω	-	11	-	ns
t_r			-	28	-	ns
$t_{d(off)}$			-	66	-	ns
t_f			-	15	-	ns
I_S			-	-	55	A
I_{SM}			-	-	220	A
V_{SD}		I_F	-		1.2	V
trr			-	26	-	ns
Qrr	Body Diode Reverse Recovery Charge		-	35	-	nC

Notes: 1. Repetitive Rating: Pulse Width Limited by Maximum Junction Temperature.

2. E_{AS} condition: Starting T_J=25C, V_{DD}=30V, V_G=10V, R_G=25ohm, L=0.5mH, I_{AS}=21.7A, V_{DD}=0V during time in avalanche.

3. R $_{-\$}$is measured with the device mounted on a 1inch^2 pad of 2oz copper FR4 PCB.

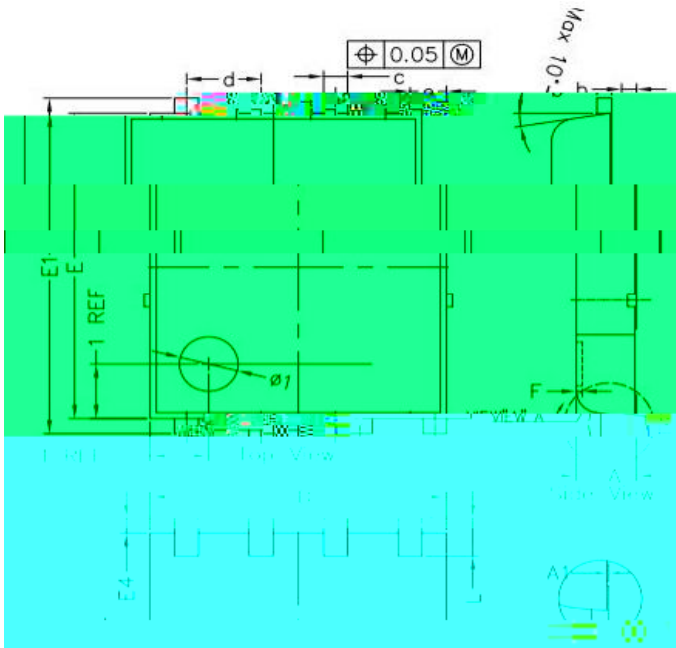
4. Pulse Test: Pulse Width V ' X W \ &0.5%.H

Typical Performance Characteristics

Typical Performance Characteristics

Test Circuit

Package Mechanical Data- PDFN5x6-8L



SYMBOLS	DIMENSION IN MM			DIMENSION IN INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.900	1.000	1.100	0.035	0.039	0.043
A1	0.000	---	0.050	0.000	----	0.002
b	0.246	0.254	0.312	0.010	0.010	0.012
* c	0.310	0.410	0.510	0.012	0.016	0.020
d	1.27 BSC			0.050 BSC		
* D	4.900	5.000	5.100	0.193	0.197	0.201
* D1	4.700	4.800	4.900	0.185	0.189	0.193
e	1.27 BSC			0.050 BSC		
* E	5.500	5.600	5.700	0.217	0.220	0.224
* E1	6.050	6.150	6.250	0.238	0.242	0.246

Information furnished in this document is believed to be accurate and reliable.
However, Jiangsu JieJie Microelectronics Co.,Ltd assumes no responsibility for the consequences of use without consideration for such information nor use beyond it.
Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.
Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information.

is a registered trademark of Jiangsu JieJie Microelectronics Co.,Ltd.