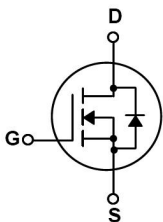
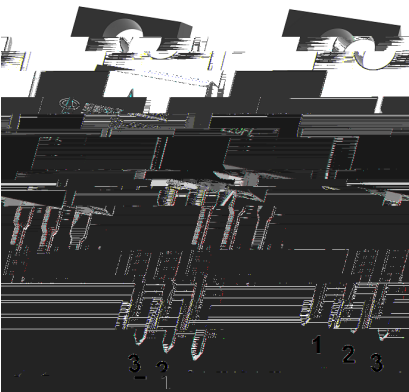


TO-220FL N 700V
N-CHANNEL 700V Super-Junction Power MOSFET in a TO-220FL Plastic Package.

$R_{DS(on)} \times Q_g$ 100% ROHS
Very low $R_{DS(on)} \times Q_g$,100% avalanche tested,RoHS compliant.

For switch mode power supply, uninterruptible power supply, power factor correction.



PIN1 G PIN 2 D PIN 3 S

1. 封装 / Marking

1 c !

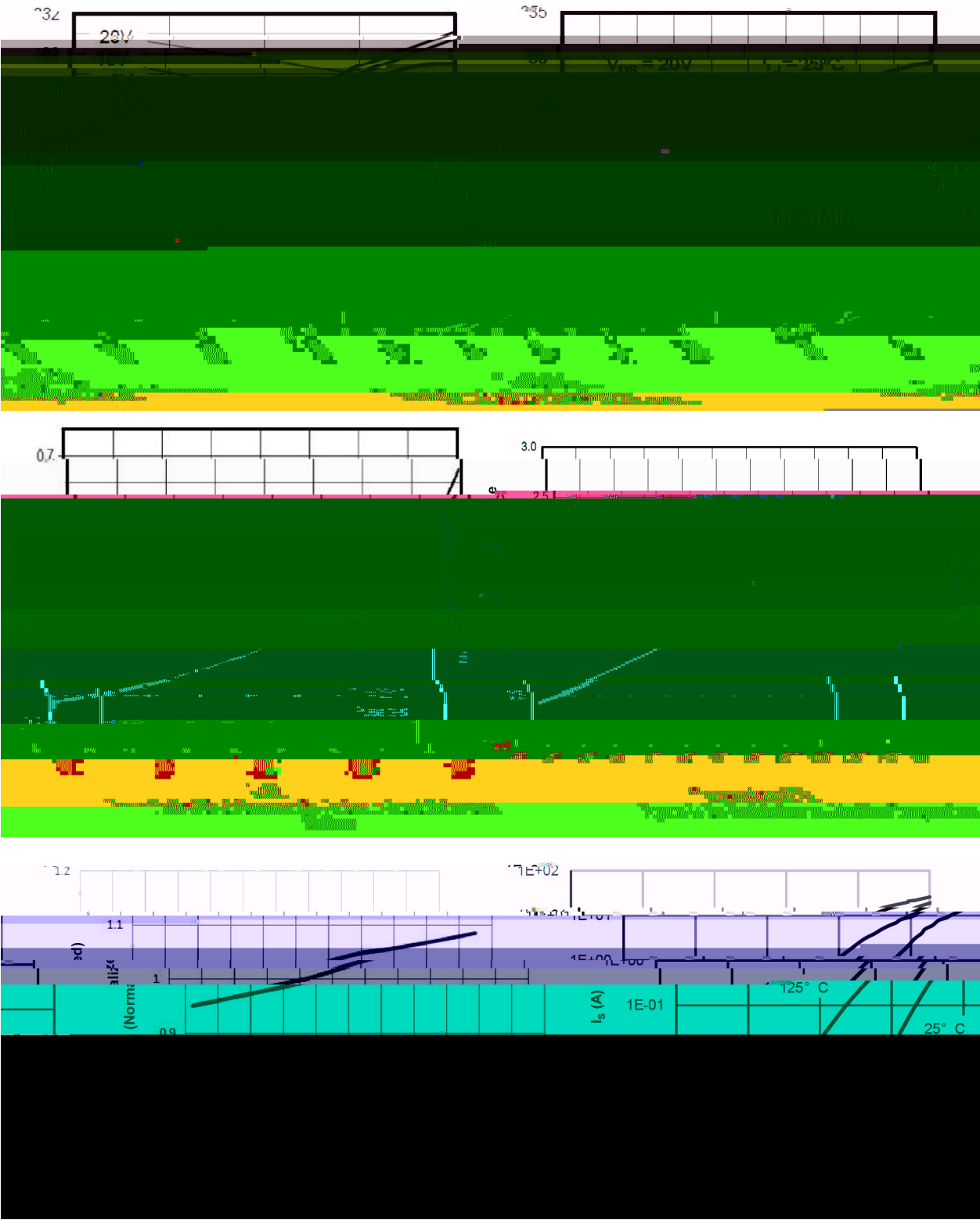
绝对最大额定值 / Absolute Maximum Ratings(Ta=25 ℃)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	700	V
Drain Current	$I_D(T_C=25\text{ }^{\circ}\text{C})$	12	A
Drain Current - Pulsed	I_{DM}	44	A
Gate-Source Voltage	V_{GS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	277	mJ
Avalanche Current	I_{AS}	8	A
Power Dissipation	$P_D(T_C=25\text{ }^{\circ}\text{C})$	27	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	
Junction-to-Case	$R_{\theta JC}$	4.6	$^{\circ}\text{C/W}$
Junction-to-Ambient	$R_{\theta JA}$	65	$^{\circ}\text{C/W}$

电 气 特 性 / Electrical Characteristics(Ta=25 ℃)

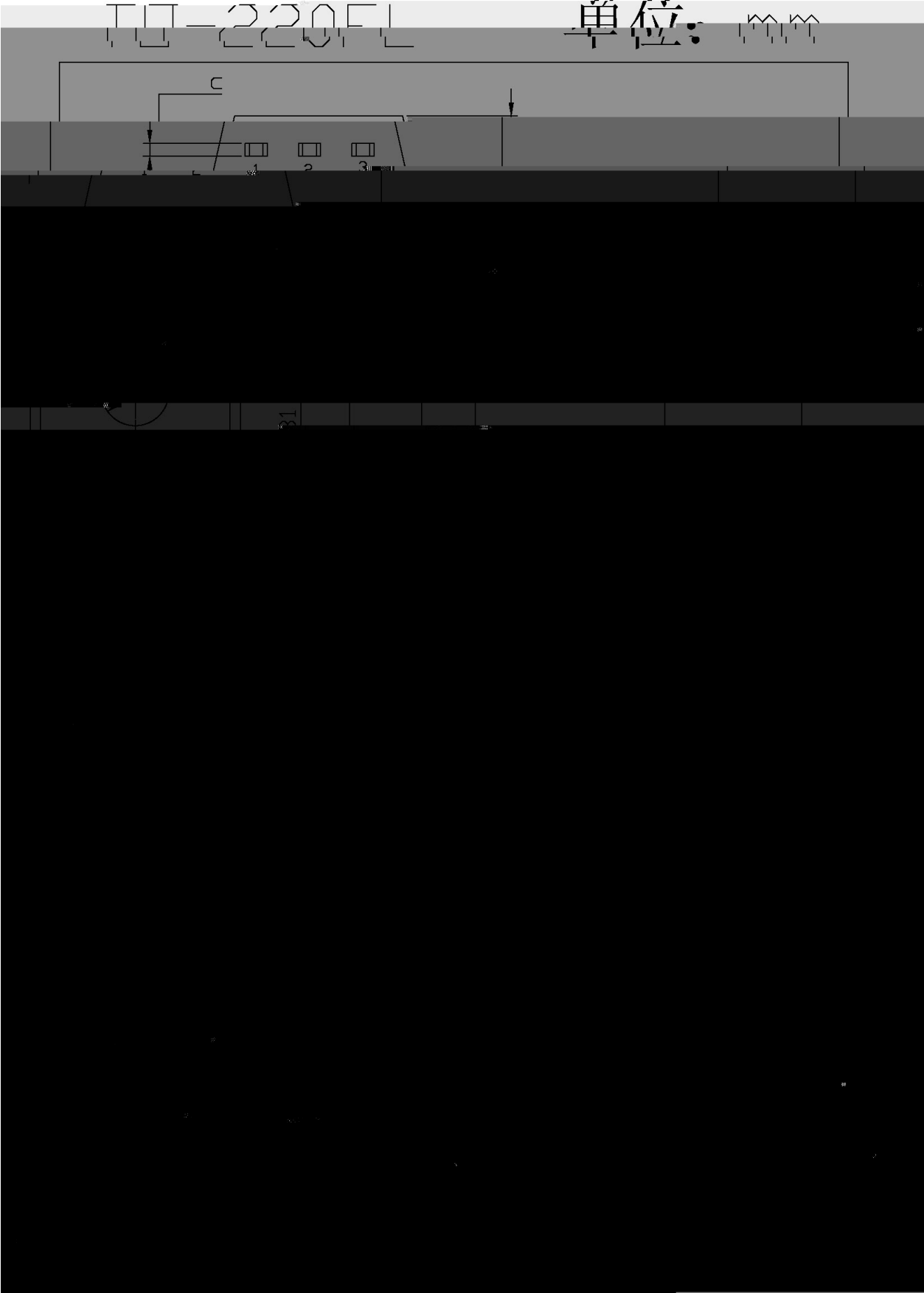
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DS}	$V_{GS}=0V$ $I_D=250\mu A$	700	735		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=700V$ $V_{GS}=0V$ $T_J=25$			1.0	μA
Gate-Body Leakage Current, Forward	I_{GSS}	$V_{GS}=\pm 30V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250\mu A$	2.5	3.3	4.0	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=6A$		300	360	m Ω
Drain-Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V$ $I_{SD}=12A$ $T_J=25$			1.2	V
Gate Resistance	R_g	$V_{GS}=0V$ $f=1.0MHz$		4.1		Ω
Input Capacitance	C_{iss}	$V_{DS}=100V$ $V_{GS}=0V$ $f=1.0MHz$		735		pF
Output Capacitance	C_{oss}			35		pF
Reverse Transfer Capacitance	C_{rss}			0.45		pF
Turn-On Delay Time	$t_{d(on)}$	$V_{DS}=465V$ $I_D=6.0A$ $R_{\theta}=25^{\circ}\text{C}$ $V_{GS}=10V$		16.3		ns
Turn-On Rise Time	t_r			35		ns
Turn-Off Delay Time	$t_{d(off)}$			78		ns
Turn-Off Fall Time	t_f			39.5		ns

Electrical Characteristic Curve

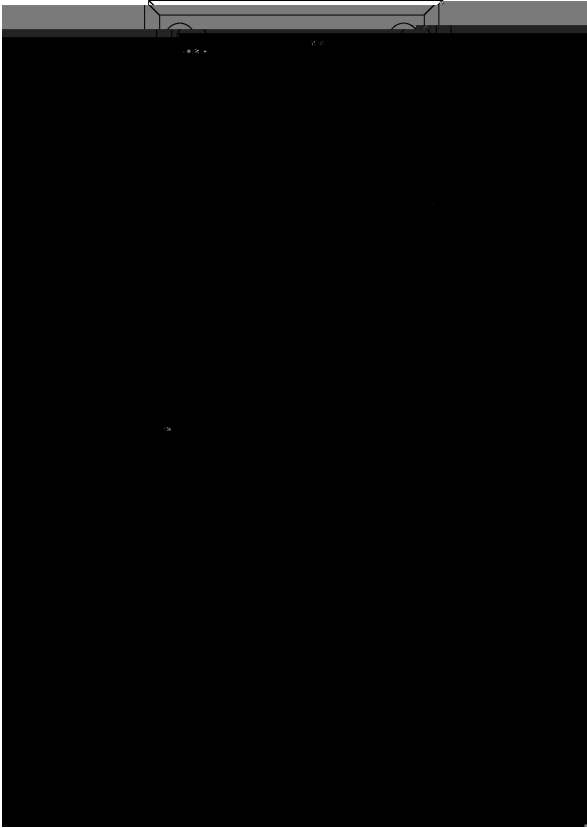


BRFL70R360C

⌘ É Ò Ì ¢ / Package Dimensions



1. 1.1 / Marking Instructions



BR
70R360C

Note:
BR: Company Code
70R360C: Product Type Code
****: Lot No. Code, code change with Lot No

