

极限参数

°C

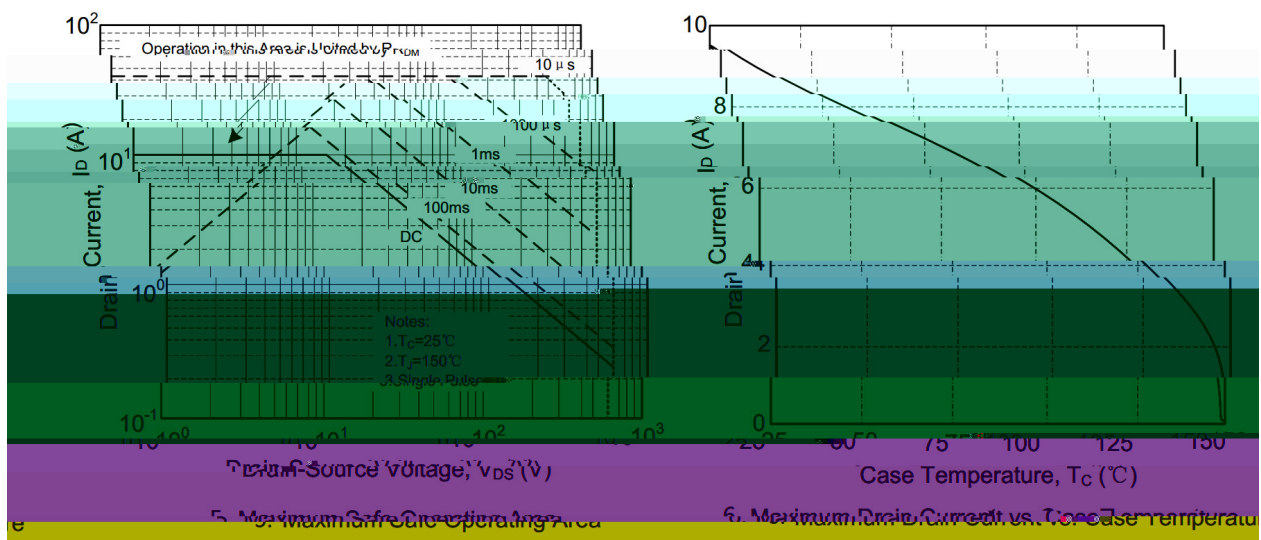
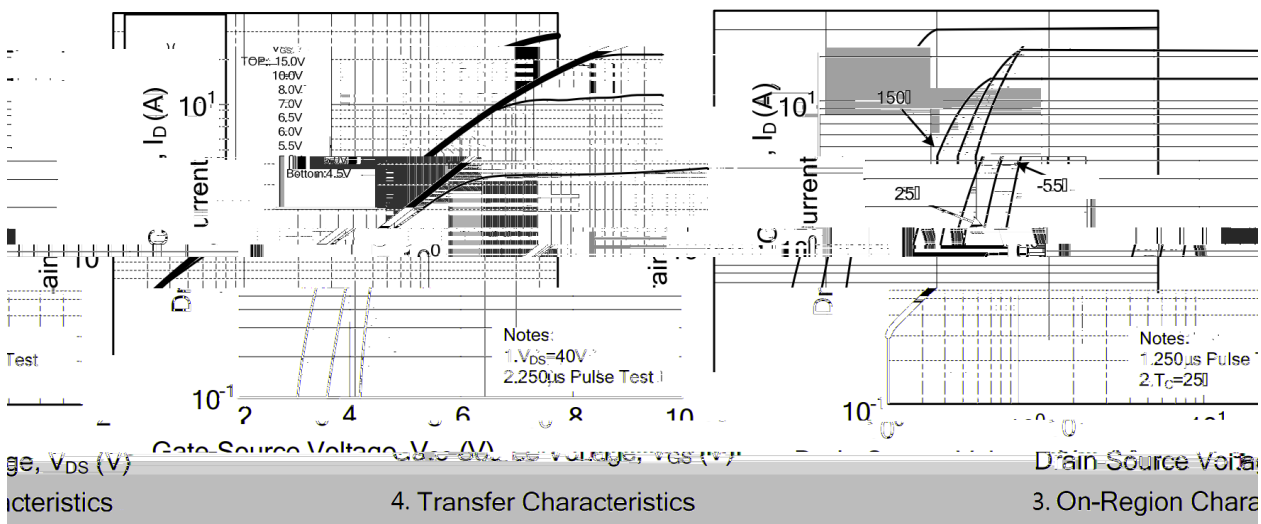
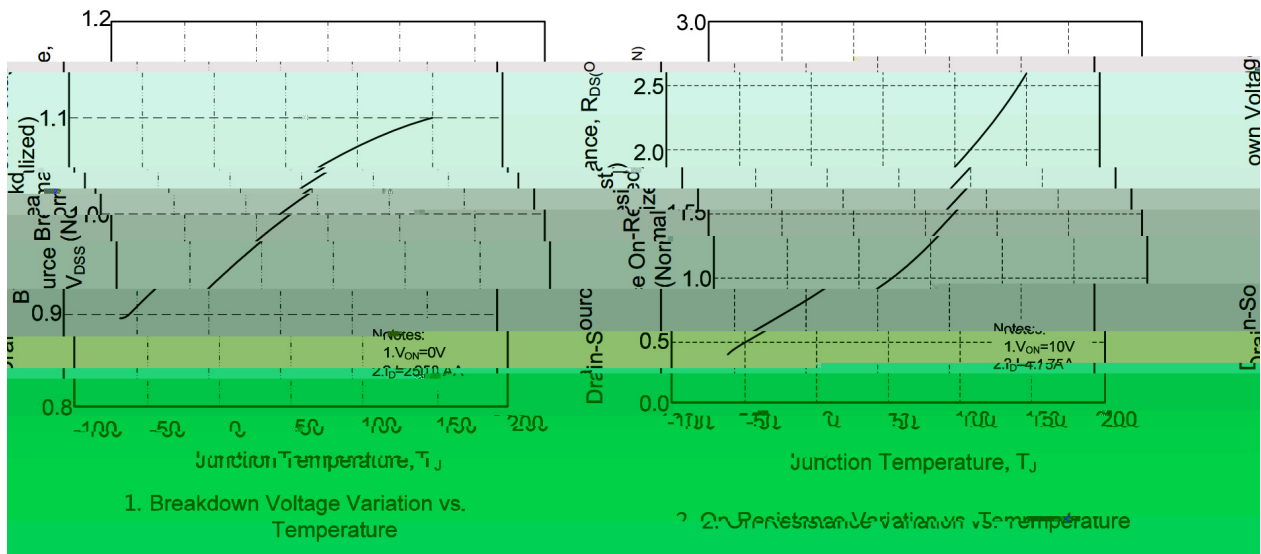
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	650	V
Drain Current	$I_D(T_C=25^\circ\text{C})$	10	A
Drain Current	$I_D(T_C=100^\circ\text{C})$	5.7	A
Drain Current - Pulsed	I_{DM}	38	A
Gate-Source Voltage	V_{GS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	488.9	mJ
Avalanche Current	I_{AR}	9.5	A
Thermal Resistance, Junction to Case	$R_{\theta JC}$	2.5	°C/W
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	65	°C/W
Power Dissipation	$P_D(T_C=25^\circ\text{C})$	50	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	°C

电性能参数

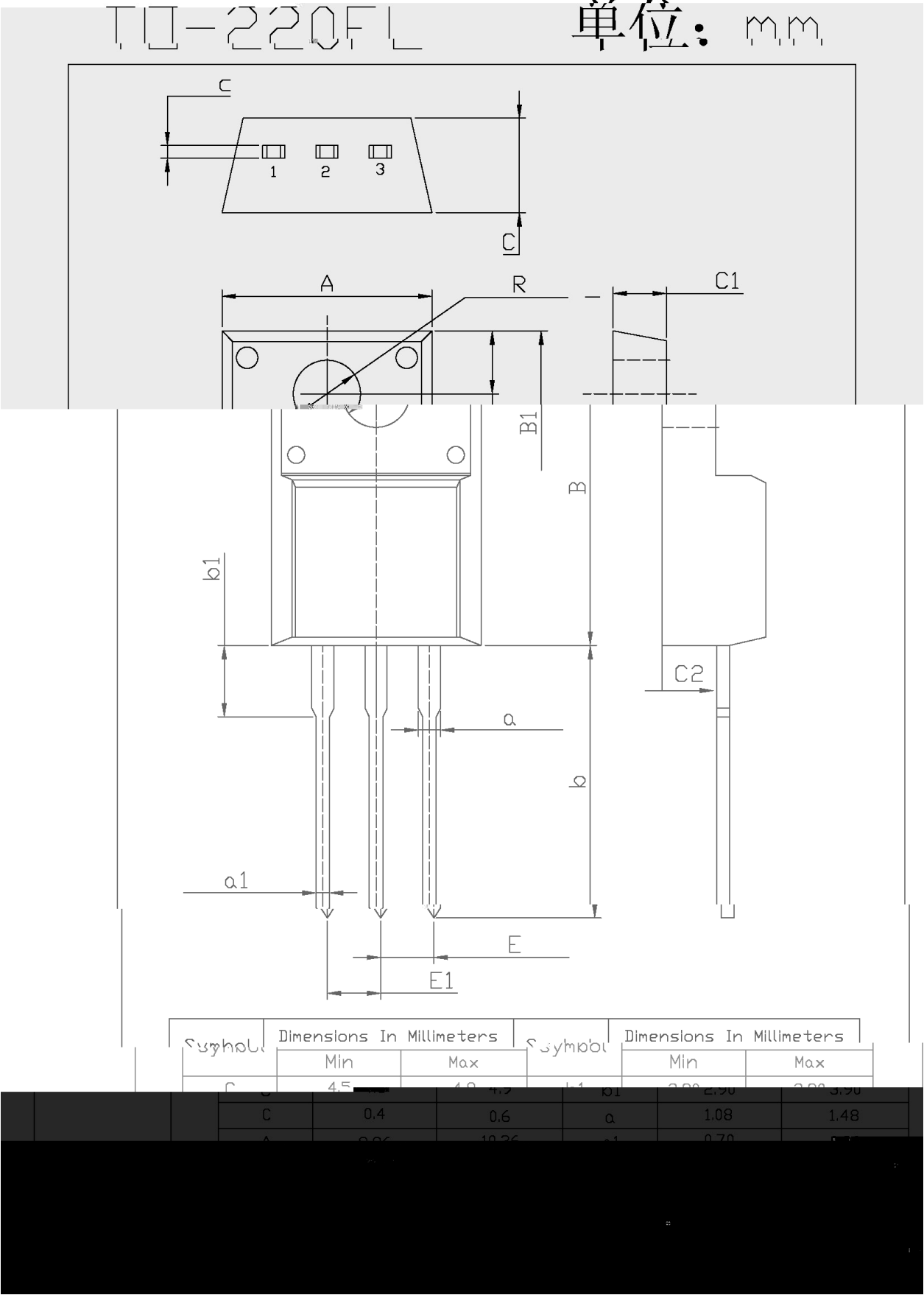
°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DS}	$V_{GS}=0V$ $I_D=250\mu A$	650			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=600V$ $V_{GS}=0V$			1.0	μA
		$V_{DS}=480V$ $T_C=125^\circ\text{C}$			10	μA
Gate-Body Leakage Current Forward	I_{GSS}	$V_{GS}=\pm 30V$ $V_{DS}=0V$			± 10	μA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250\mu A$	2.0		4.0	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=4.75A$		0.8	0.95	Ω
Continuous Source Current	I_S				10	A
Maximum Pulsed Current	I_{SM}				38	A
Drain-Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V$ $I_S=9.5A$			1.4	V
Reverse Recovery Time	t_{rr}	$V_{GS}=0V$ $I_S=10A$ $di/dt = 100 A/\mu s$		333		ns
Reverse Recovery Charge	Q_{rr}			3.9		μC
Input Capacitance	C_{iss}	$V_{DS}=25V$ $V_{GS}=0V$ $f=1.0MHz$		1570		pF
Output Capacitance	C_{oss}			166		pF
Reverse Transfer Capacitance	C_{rss}			18		pF
Turn-On Delay Time	$t_{d(on)}$	$V_{DD}=300V$ $I_D=9.5A$ $R_G=25\Omega$		23		ns
Turn-On Rise Time	t_r			69		ns
Turn-Off Delay Time	$t_{d(off)}$			144		ns
Turn-Off Fall Time	t_f			77		ns

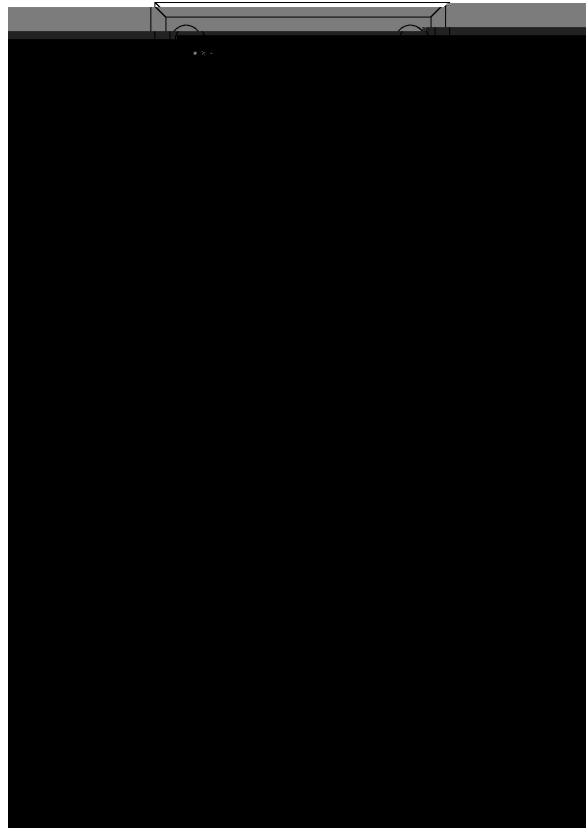
电参数曲线图



外形尺寸图



印章说明



BR

10N65

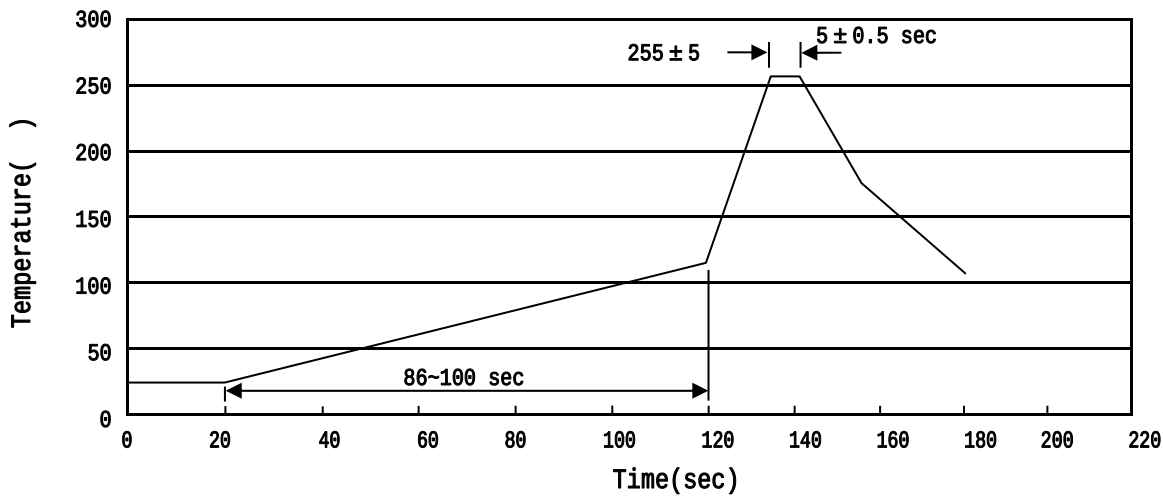
Note:

BR: Company Code

10N65: Product Type Code

****: Lot No. Code, code change with Lot No.

波峰焊温度曲线图 无铅



Note:

- | | | | |
|---|--------|-----------|---|
| 1 | 25 150 | 60 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255±5 | 5±0.5sec; | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |
| 3 | 2 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

耐焊接热试验条件

270±5 10±1 sec. Temp.:270±5℃ Time:10±1 sec

包装规格

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220FL	50	20	1,000	5	5,000	532×33×7.0	555×164×50	575×290×180

使用说明

All information provided in this document is subject to legal disclaimers.