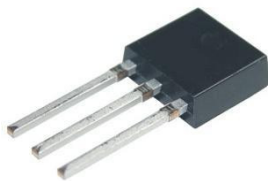
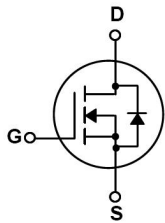


TO-251 M M N MOS 6 5 4 3 2 1 N-CHANNEL MOSFET in a TO-251 Plastic Package.

Fast switching, low on resistance, low gate charge, low reverse transfer capacitances.

Used in various power switching circuit for system miniaturization and higher efficiency.

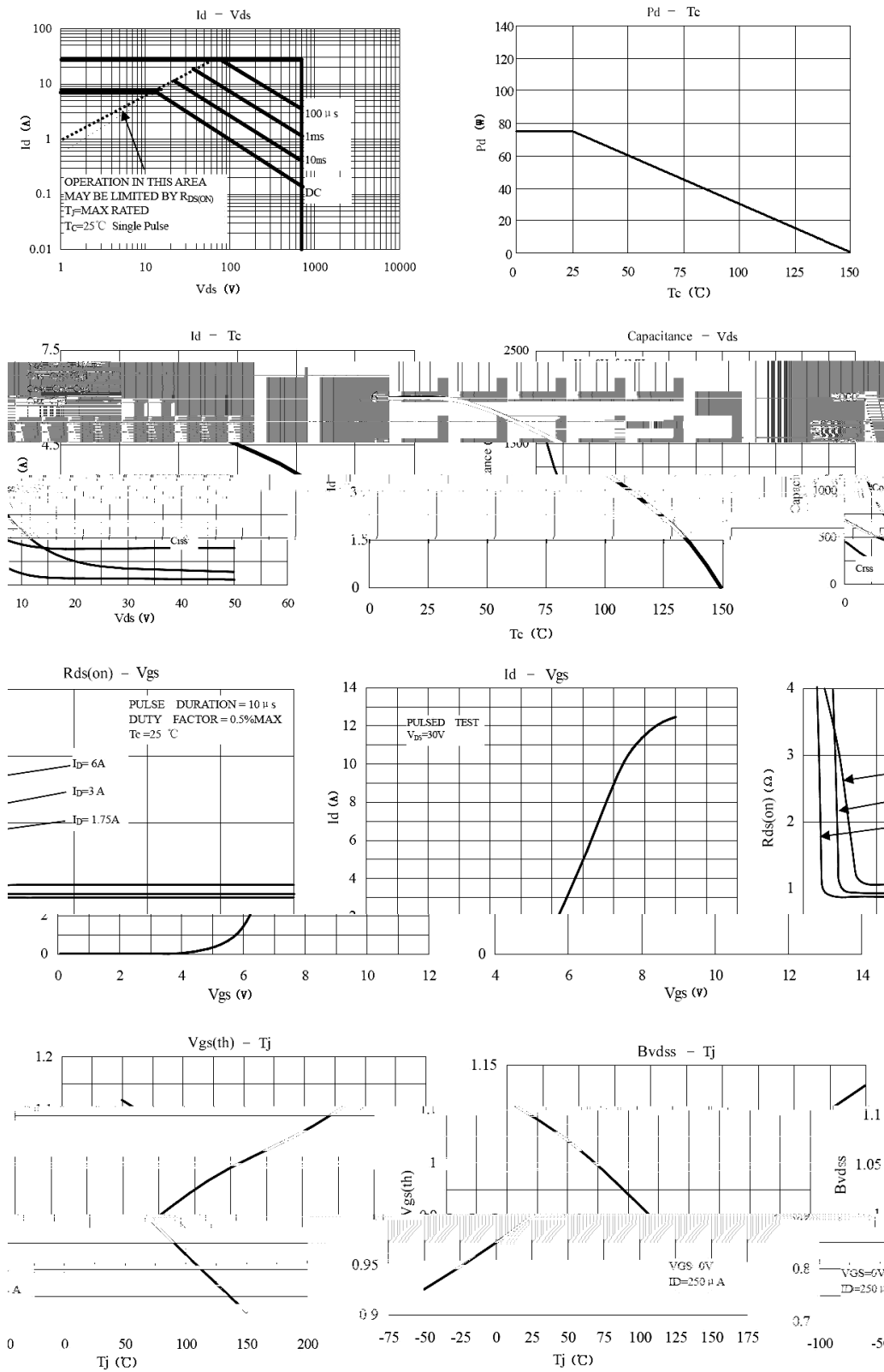


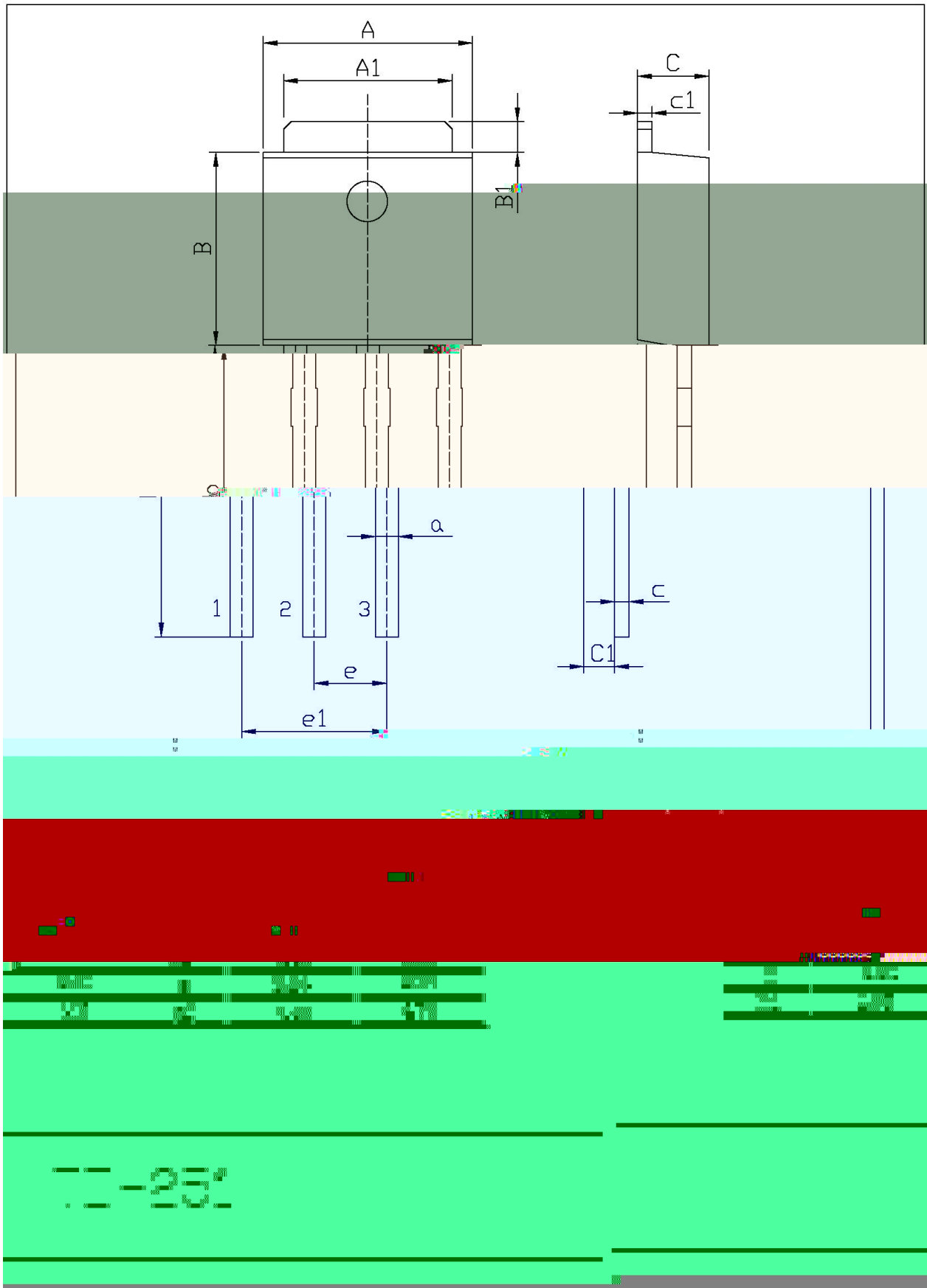
PIN1 χ G PIN 2 χ D PIN 3 χ S

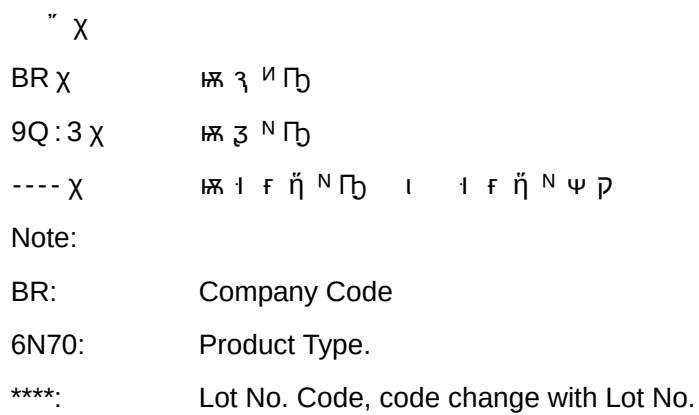
M 7 " See Marking Instructions.

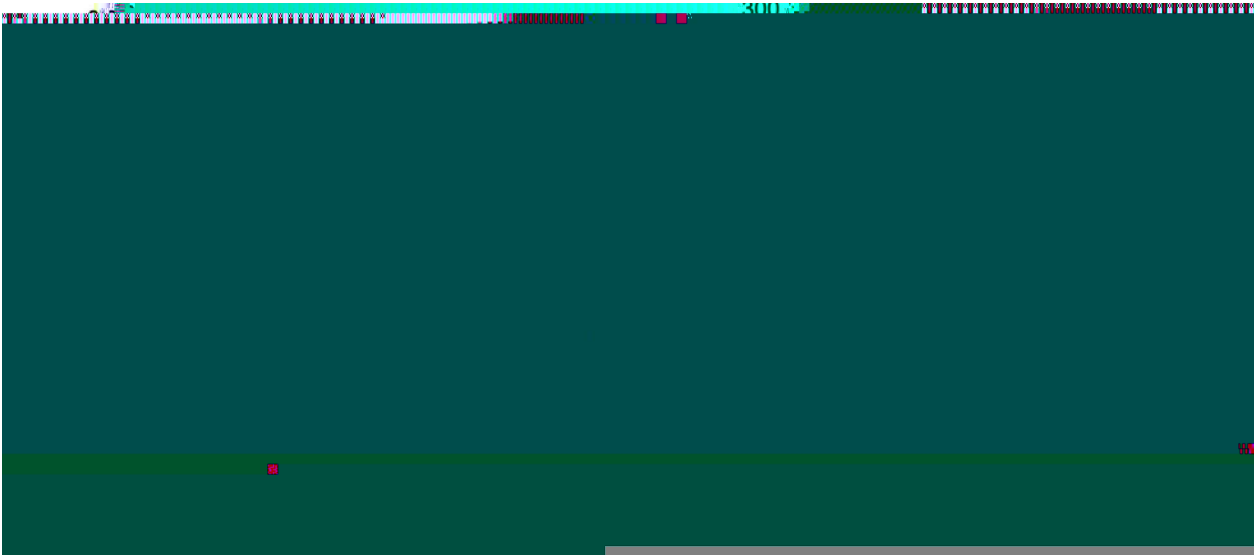
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	700	V
Drain Current	$I_D(T_c=25^\circ\text{C})$	6.0	A
Drain Current	$I_D(T_c=100^\circ\text{C})$	3.6	A
Drain Current - Pulsed	I_{DM}	24	A
Gate-Source Voltage	V_{GS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	185	mJ
Repetitive Avalanche Energy	E_{AR}	20	mJ
Avalanche Current	I_{AR}	3.3	A
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	75	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	$^\circ\text{C}$
Junction-to-Case	$R_{\theta JC}$	1.66	$^\circ\text{C/W}$
Junction-to-Ambient	$R_{\theta JA}$	83.3	$^\circ\text{C/W}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250\mu A$	700			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=700V$ $V_{GS}=0V$			1	μA
		$V_{DS}=560V$ $T_a=125^\circ\text{C}$			100	μA
Gate-Body Leakage Current, Forward	I_{GSS}	$V_{GS}=\pm 20V$ $V_{DS}=0V$			± 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	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=3.0A$		1.35	1.6	Ω
Forward Transconductance	g_{FS}	$V_{DS}=15V$ $I_D=3.0A$		5.0		S
Drain-Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V$ $I_S=6.0A$			1.5	V
Input Capacitance	C_{iss}	$V_{DS}=25V$ $V_{GS}=0V$ $f=1.0MHz$		938		pF
Output Capacitance	C_{oss}			87.8		pF
Reverse Transfer Capacitance	C_{rss}			8.2		pF
Turn-On Delay Time	$t_{d(on)}$	$V_{DD}=350V$ $R_G=25\Omega$ $I_D=6.0A$ $V_{GS}=10V$		14.7		ns
Turn-On Rise Time	t_r			26		ns
Turn-Off Delay Time	$t_{d(off)}$			68.4		ns
Turn-Off Fall Time	t_f			34.6		ns









- ” X
- 1 25 150 60 90sec;
 - 2 255° 5 5° 0.5sec;
 - 3 2 10 /sec.

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

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

“ Q T Y / BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm³)		
	只 袋	袋 盒	只 盒	盒 箱	只 箱	袋	盒	箱

“ 1 Y / TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm³)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱