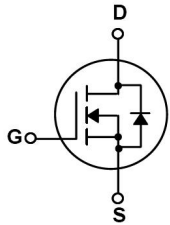


TO-252 N MOS N-CHANNEL MOSFET in a TO-252 Plastic Package.

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

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

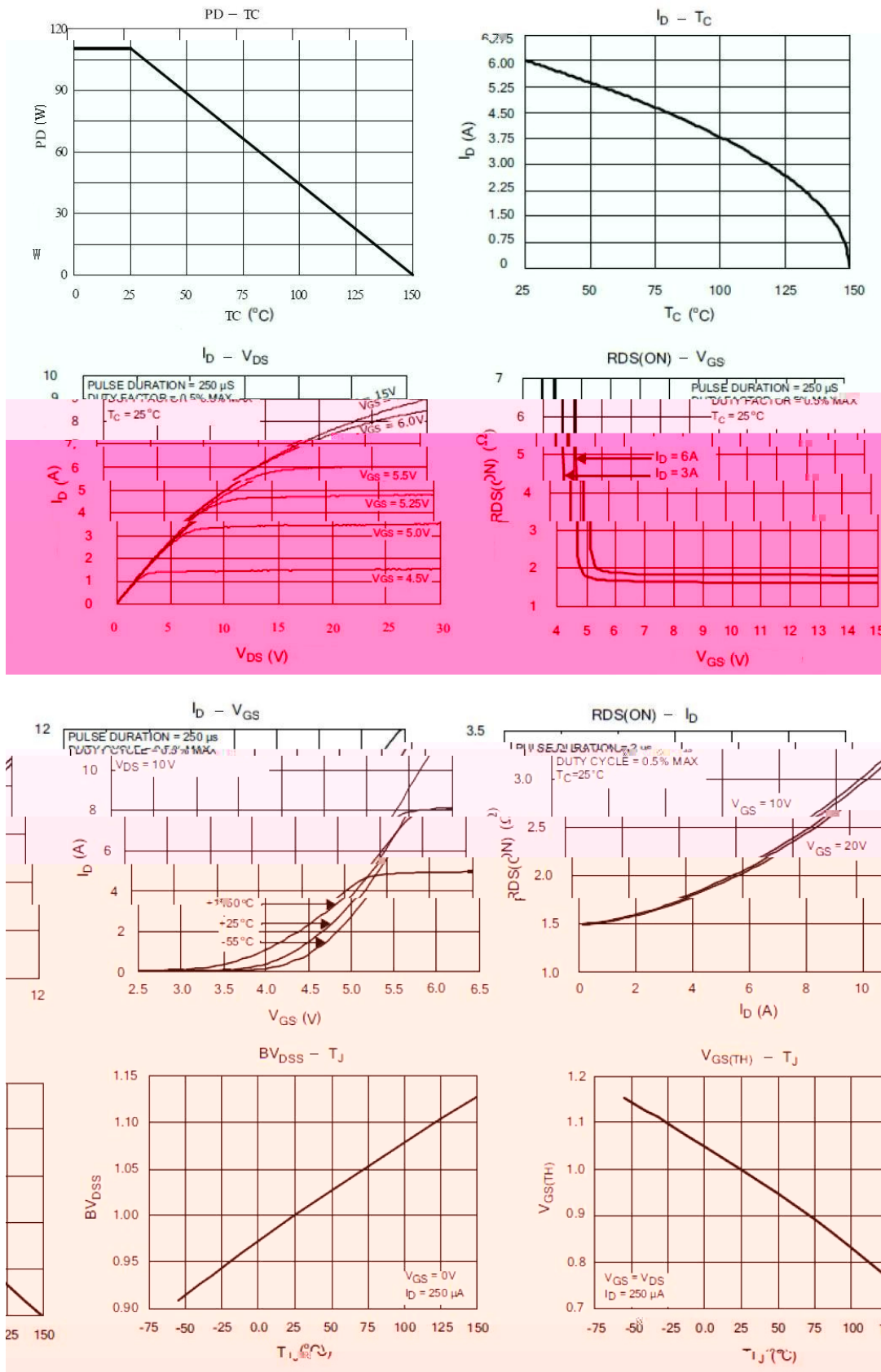


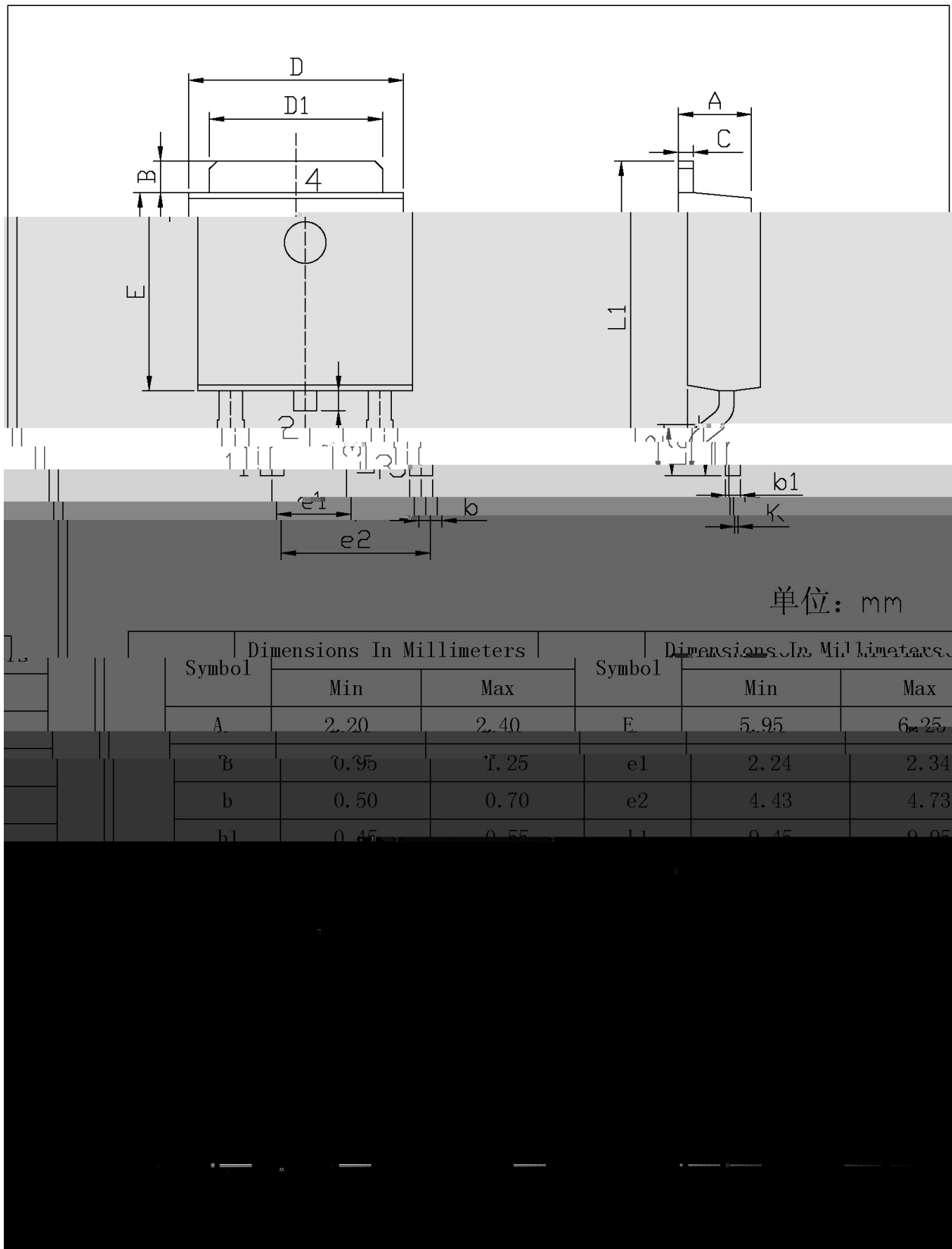
PIN1 G PIN 2 D PIN 3 S PIN 4 D

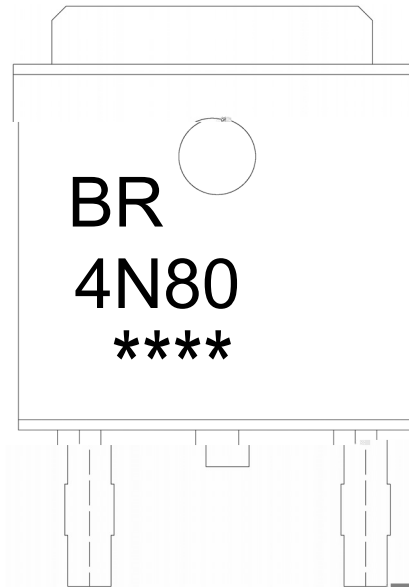
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	800	V
Drain Current	$I_D(T_c=25^\circ\text{C})$	4.0	A
Drain Current	$I_D(T_c=100^\circ\text{C})$	3.2	A
Drain Current - Pulsed	I_{DM}	16	A
Gate-Source Voltage	V_{GS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	300	mJ
Repetitive Avalanche Energy	E_{AR}	26	mJ
Avalanche Current	I_{AR}	2.3	A
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	110	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	
Thermal Resistance, Junction to Case	$R_{\theta JC}$	1.14	/W
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	62.5	/W

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250\mu A$	800			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=800V$ $V_{GS}=0V$			25	μA
		$V_{DS}=640V$ $T_a=125^\circ\text{C}$			250	μA
Gate-Body Leakage Current Forward	I_{GSS}	$V_{GS}=\pm 30V$ $V_{DS}=0V$			± 100	nA
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	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=2.4A$		1.85	2.2	Ω
Forward Transconductance	g_{FS}	$V_{DS}=15V$ $I_D=2.4A$		7.5		S
Drain-Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V$ $I_S=4.0A$			1.5	V
Input Capacitance	C_{iss}	$V_{DS}=25V$ $V_{GS}=0V$ $f=1.0MHz$		1350		pF
Output Capacitance	C_{oss}			100		pF
Reverse Transfer Capacitance	C_{rss}			15		pF
Turn-On Delay Time	$t_{d(on)}$	$V_{DD}=400V$ $I_D=4.0A$ $R_G=12\Omega$ $V_{GS}=10V$		16		ns
Turn-On Rise Time	t_r			18		ns
Turn-Off Delay Time	$t_{d(off)}$			50		ns
Turn-Off Fall Time	t_f			25		ns







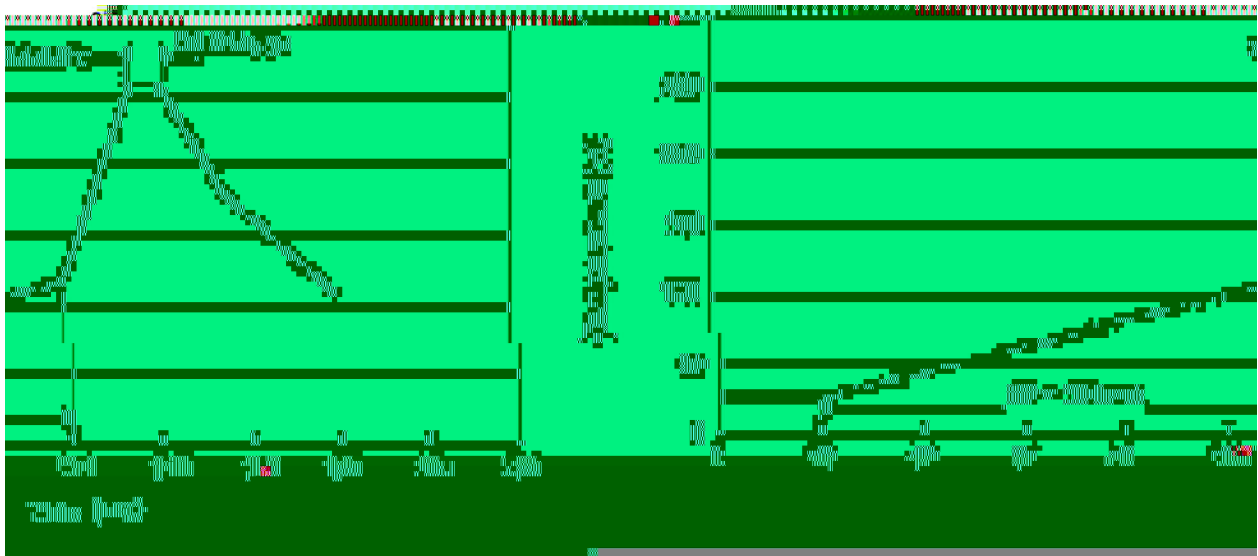
BR
4N80

Note:

BR: Company Code

4N80: Product Type.

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



Note:

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

- 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

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
TO-252	2,500	2	5,000	5	25,000	13 ×16	360×360×50	385×257×392

/ 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-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	