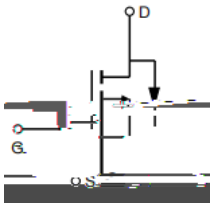
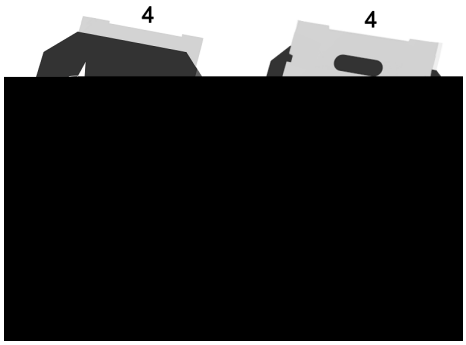
TO-252 P MOS
P-CHANNEL MOSFET in a TO-252 Plastic Package.

Low $R_{DS(on)}$,low gate charge, low C_{rss}, fast switching, HF Product.

Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products.



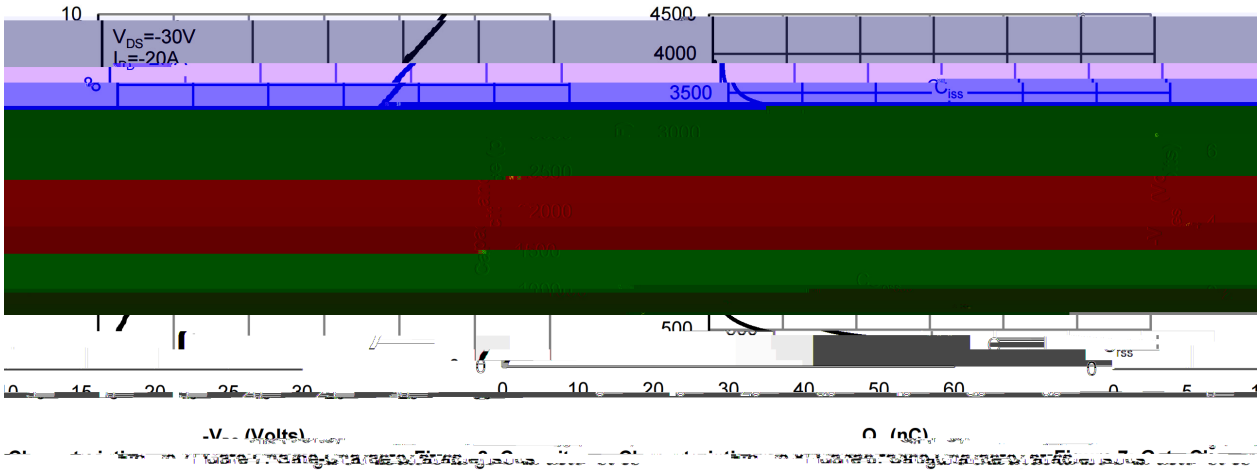


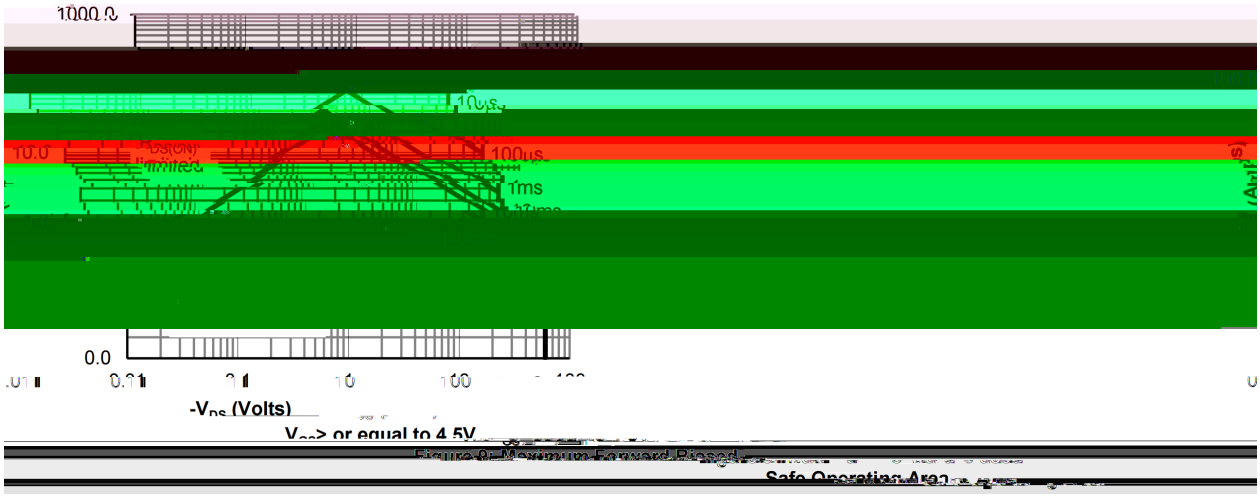
PIN1 G PIN 2 D PIN 3 S PIN 4 D

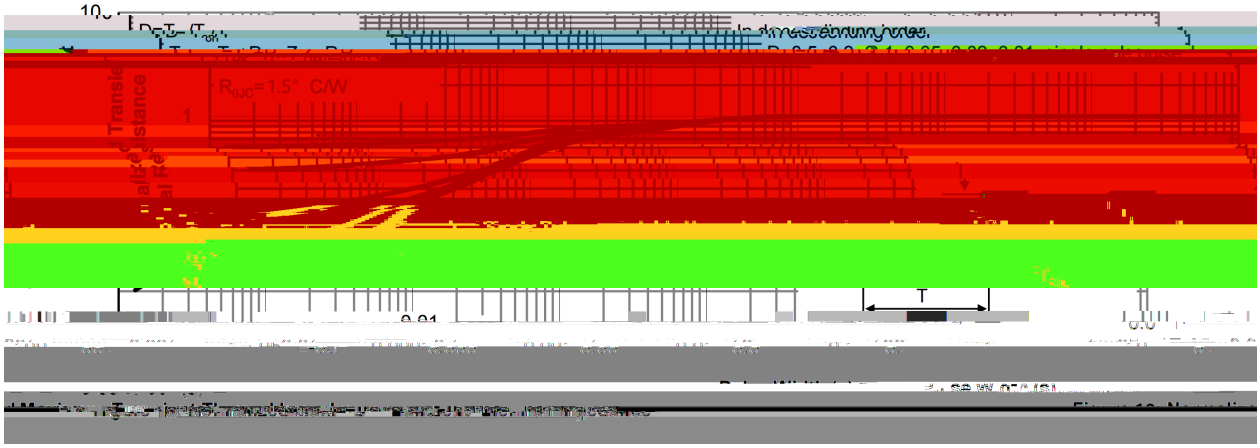
See Marking Instructions.

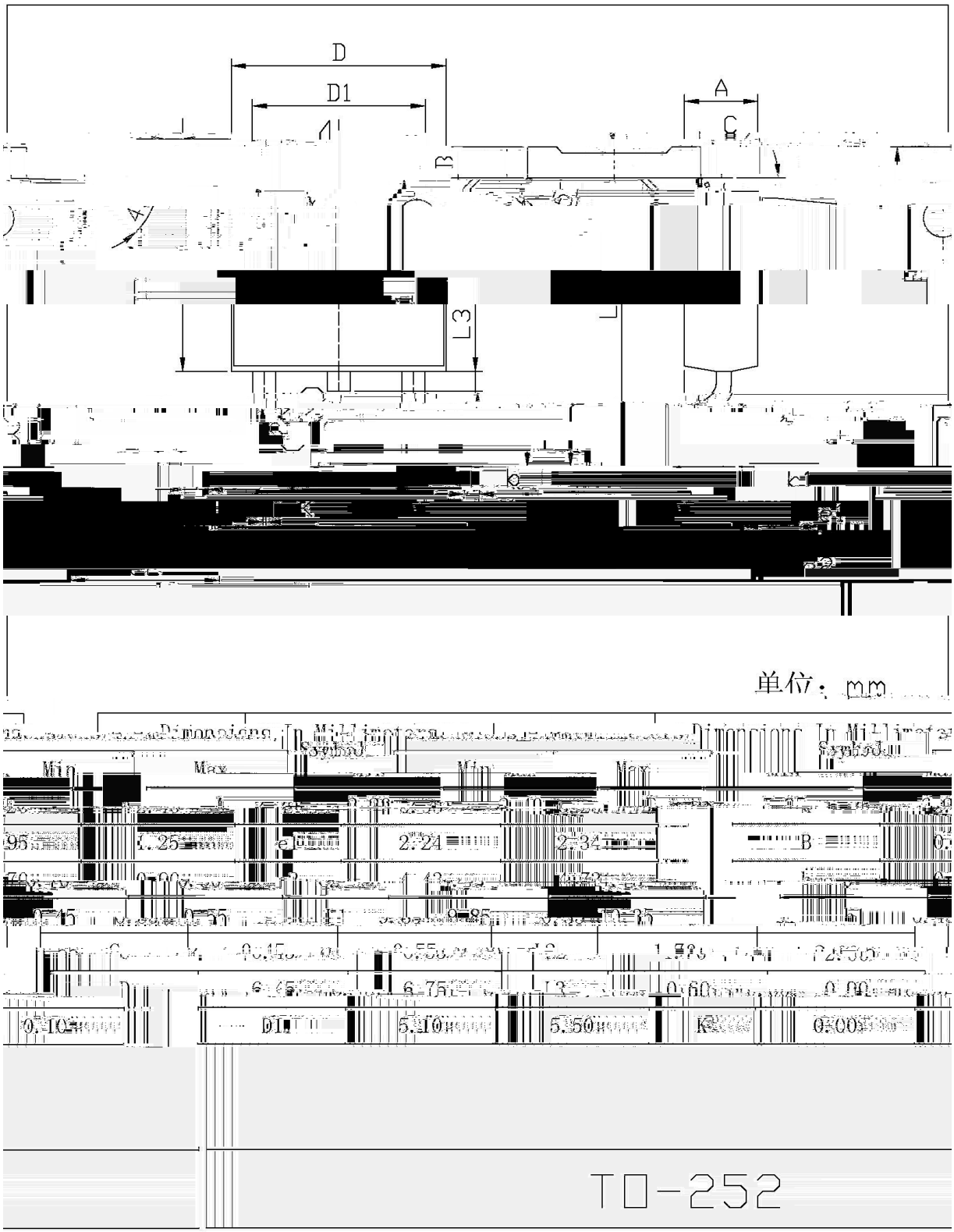
Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DS}	-60	V
Drain Current		I_D(Tc=25)	-50	A
Drain Current - Pulsed		I_{DM}	-200	A
Gate-Source Voltage		V_{GS}	±20	V
Power Dissipation		P_D(Tc=25)	85	W
Single Pulsed Avalanche Energy		E_{AS}	250	mJ
Avalanche Current(L=0.5mH)		I_{AS}	25	A
Junction and Storage Temperature Range		T_j, T_{stg}	-55 to 150	
Thermal resistance, junction - ambient	t ≤ 10s	$R_{\theta JA}$	25	/ W
	Steady-State		50	
Thermal resistance, junction - case	Steady-State	$R_{\theta JC}$	1.5	

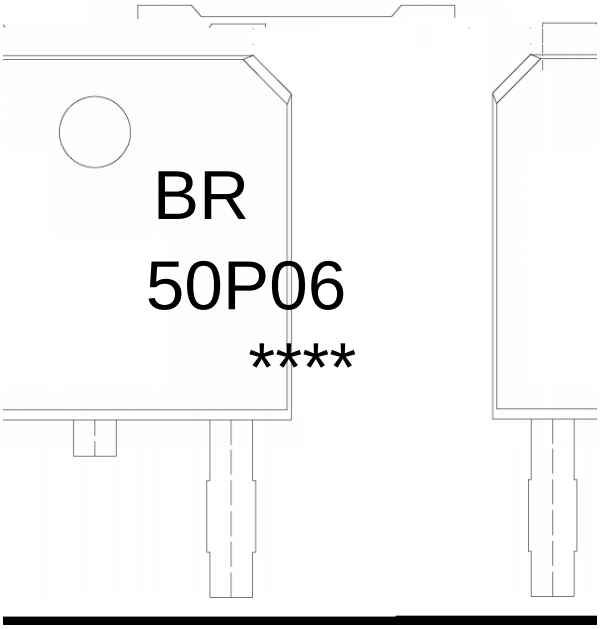
Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V	I_D=-250μA	-60	-68		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=-60V	V_{GS}=0V			-1.0	μA
		V_{DS}=-48V	T_C=150			-10	
Gate-Body Leakage Current Forward	I_{GSS}	V_{GS}=±20V	V_{DS}=0V			±0.1	μA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS}	I_D=-250μA	-1	-1.6	-3	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	V_{GS}=-10V	I_D=-20A		30	35	mΩ
	$R_{DS(on)}$	V_{GS}=-4.5V	I_D=-10A		40	45	mΩ
Drain-Source Diode Forward Voltage	V_{SD}	V_{GS}=0V	I_S=-1A			-1.2	V
Gate resistance	Rg				10		Ω
Input Capacitance	C_{iss}	V_{DS}=-25V f=1.0MHz	V_{GS}=0V		3200		pF
Output Capacitance	C_{oss}				800		pF


10
V_{DS}=-30V
I_D=-20A
4500
4000
3500
C_{iss}
500
C_{rss}
0
10
20
30
40
50
60
-V$_{ds}$ (Volts)
Q (nC)


1000
10µs
10.0
100µs
1ms
0.0
0.01
0.1
1
10
100
-V$_{ds}$ (Volts)
V$_{gs}$> or equal to 4.5V


$R_{\theta JC}$=1.5° C/W
T
0.01
0.0


D
D1
A
L3
单位：mm
TO-252

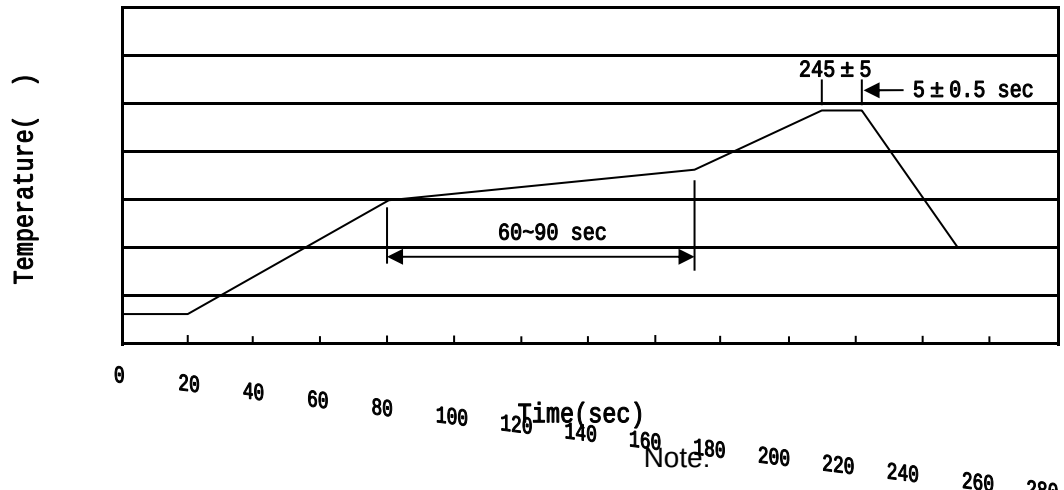


BR

Note:

BR:	Company Code
50P06:	Product Type Code
****:	Lot No. Code, code change with Lot No.

(Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

1	150	180	60 90sec;	1.Preheating:150~180 , Time:60~90sec.
2	245	5	5 0.5sec;	2.Peak Temp.:245 5 , Duration:5 0.5sec.
3		2 10 /sec.		3. Cooling Speed: 2~10 /sec.

260 5 10 1 sec. Temp.:260±5 Time:10±1 sec

/ REEL

Package Type	Units					Dimension		(unit mm³)
	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	6	30,000	13 ×16	360×360×50	380×335×366

/ TUBE

Package Type	Units					Dimension		(unit mm³)
	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	575×290×180