

Rev.A Feb.-2024

TO-252 N MOS

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

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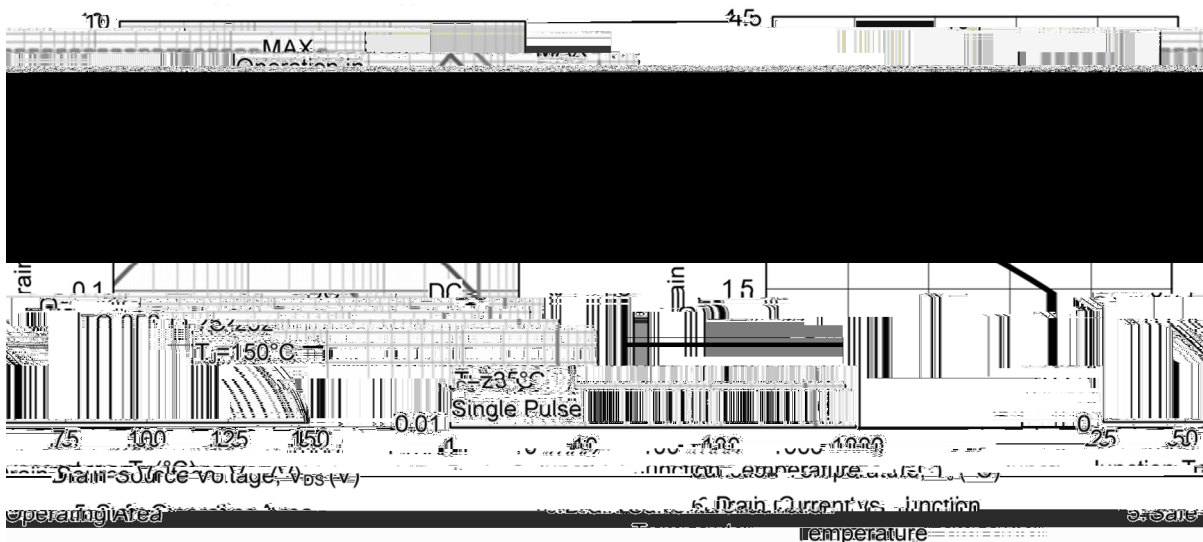
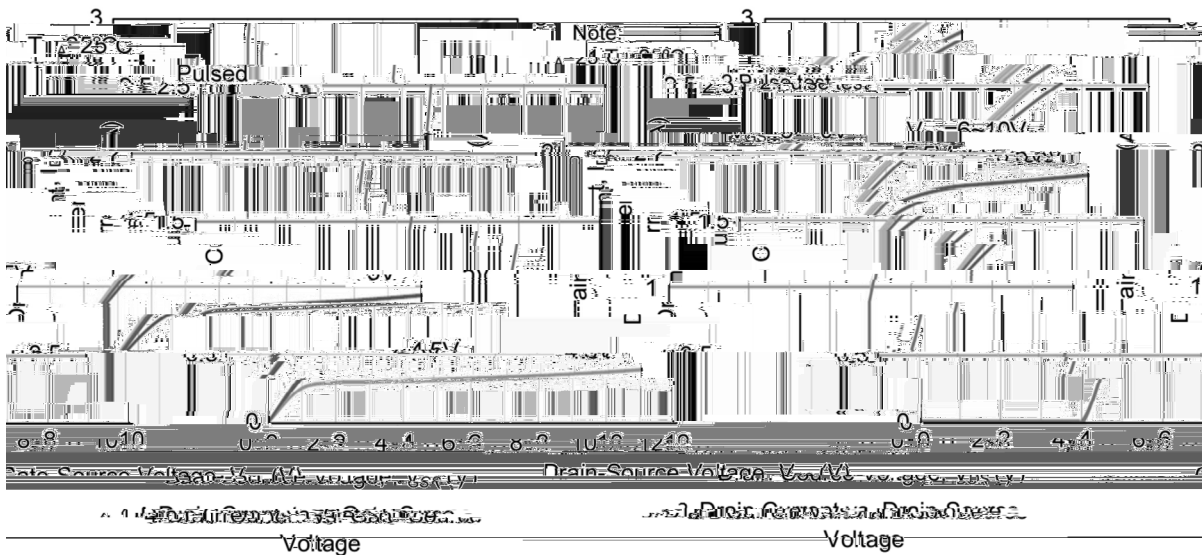
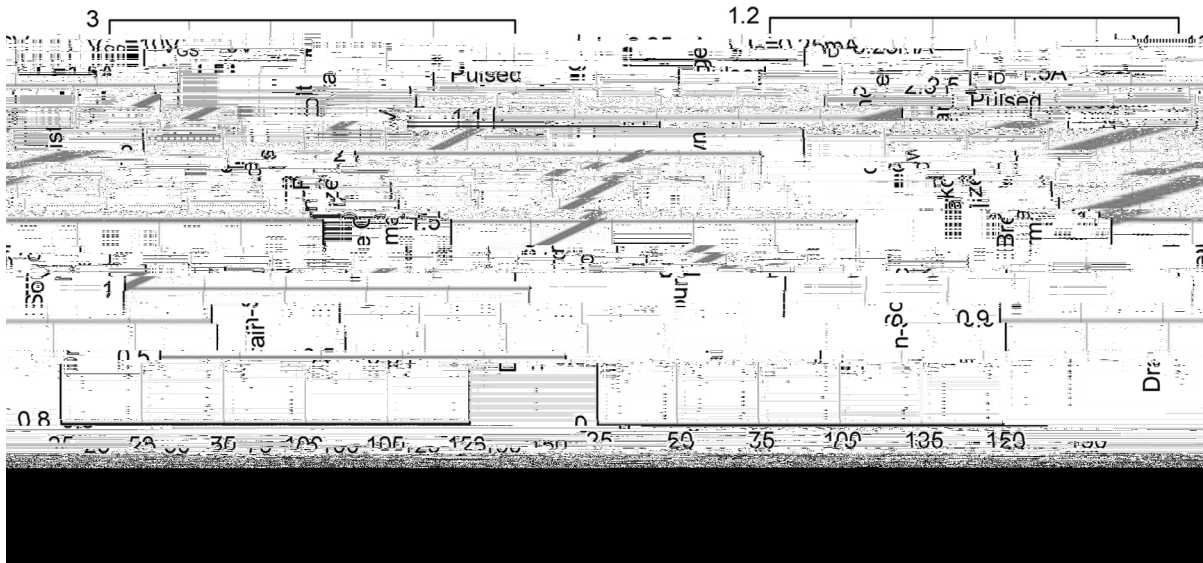
Low gate charge, low crss, fast switching, HF Product. Have good Electromagnetic Interference performance, HF Product.

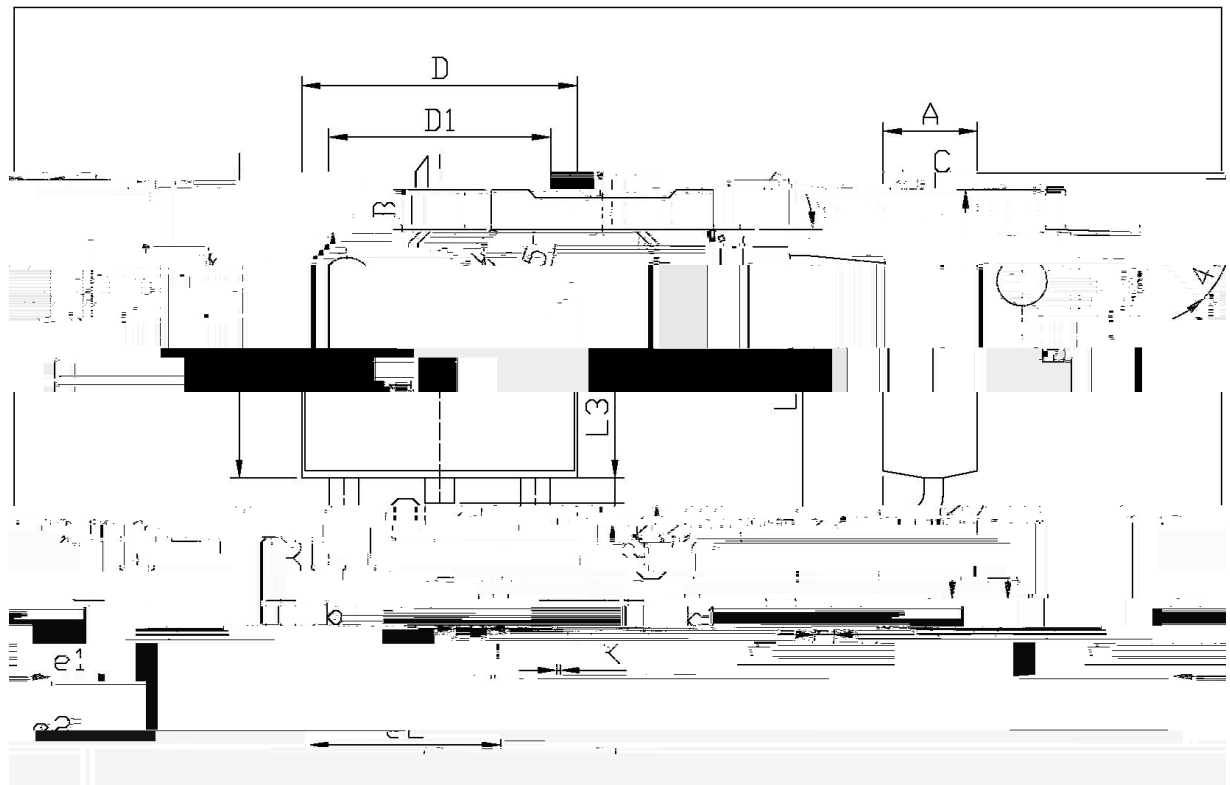
These devices are well suited for power switch circuit of adaptor and charger.

PIN1 G PIN 2 D PIN 3

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	500	V
Drain Current	$I_D(T_c=25^\circ\text{C})$	3	A
Drain Current - Pulsed	I_{DM}	6	A
Gate-Source Voltage	V_{GS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	97	mJ
Avalanche Current	I_{AS}	4.4	A
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	45	W

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	td(on)	V _{DD} =100V I _D =3.0A V _{GS} =10V R _G =25Ω		4		ns



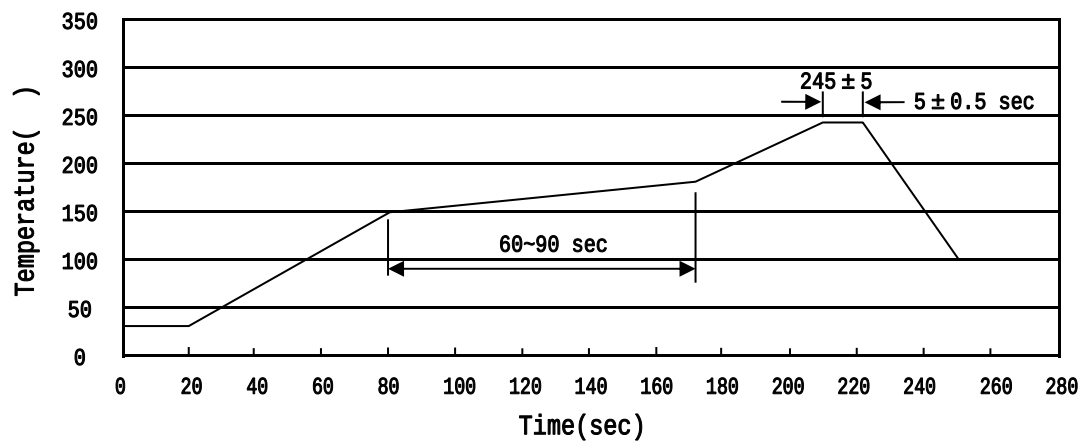


单位: mm

Dimensions in Millimeters		Dimensions in Millimeters	
Max	Min	Max	Min
2-34	0.00	2-24	0.00
0.95	0.00	0.95	0.00
0.45	0.00	0.45	0.00
0.55	0.00	0.55	0.00
0.60	0.00	0.60	0.00
0.65	0.00	0.65	0.00
0.70	0.00	0.70	0.00
0.75	0.00	0.75	0.00
0.80	0.00	0.80	0.00
0.85	0.00	0.85	0.00
0.90	0.00	0.90	0.00
0.95	0.00	0.95	0.00
1.00	0.00	1.00	0.00
1.05	0.00	1.05	0.00
1.10	0.00	1.10	0.00
1.15	0.00	1.15	0.00
1.20	0.00	1.20	0.00
1.25	0.00	1.25	0.00
1.30	0.00	1.30	0.00
1.35	0.00	1.35	0.00
1.40	0.00	1.40	0.00
1.45	0.00	1.45	0.00
1.50	0.00	1.50	0.00
1.55	0.00	1.55	0.00
1.60	0.00	1.60	0.00
1.65	0.00	1.65	0.00
1.70	0.00	1.70	0.00
1.75	0.00	1.75	0.00
1.80	0.00	1.80	0.00
1.85	0.00	1.85	0.00
1.90	0.00	1.90	0.00
1.95	0.00	1.95	0.00
2.00	0.00	2.00	0.00
2.05	0.00	2.05	0.00
2.10	0.00	2.10	0.00
2.15	0.00	2.15	0.00
2.20	0.00	2.20	0.00
2.25	0.00	2.25	0.00
2.30	0.00	2.30	0.00
2.35	0.00	2.35	0.00
2.40	0.00	2.40	0.00
2.45	0.00	2.45	0.00
2.50	0.00	2.50	0.00
2.55	0.00	2.55	0.00
2.60	0.00	2.60	0.00
2.65	0.00	2.65	0.00
2.70	0.00	2.70	0.00
2.75	0.00	2.75	0.00
2.80	0.00	2.80	0.00
2.85	0.00	2.85	0.00
2.90	0.00	2.90	0.00
2.95	0.00	2.95	0.00
3.00	0.00	3.00	0.00
3.05	0.00	3.05	0.00
3.10	0.00	3.10	0.00
3.15	0.00	3.15	0.00
3.20	0.00	3.20	0.00
3.25	0.00	3.25	0.00
3.30	0.00	3.30	0.00
3.35	0.00	3.35	0.00
3.40	0.00	3.40	0.00
3.45	0.00	3.45	0.00
3.50	0.00	3.50	0.00
3.55	0.00	3.55	0.00
3.60	0.00	3.60	0.00
3.65	0.00	3.65	0.00
3.70	0.00	3.70	0.00
3.75	0.00	3.75	0.00
3.80	0.00	3.80	0.00
3.85	0.00	3.85	0.00
3.90	0.00	3.90	0.00
3.95	0.00	3.95	0.00
4.00	0.00	4.00	0.00
4.05	0.00	4.05	0.00
4.10	0.00	4.10	0.00
4.15	0.00	4.15	0.00
4.20	0.00	4.20	0.00
4.25	0.00	4.25	0.00
4.30	0.00	4.30	0.00
4.35	0.00	4.35	0.00
4.40	0.00	4.40	0.00
4.45	0.00	4.45	0.00
4.50	0.00	4.50	0.00
4.55	0.00	4.55	0.00
4.60	0.00	4.60	0.00
4.65	0.00	4.65	0.00
4.70	0.00	4.70	0.00
4.75	0.00	4.75	0.00
4.80	0.00	4.80	0.00
4.85	0.00	4.85	0.00
4.90	0.00	4.90	0.00
4.95	0.00	4.95	0.00
5.00	0.00	5.00	0.00
5.05	0.00	5.05	0.00
5.10	0.00	5.10	0.00
5.15	0.00	5.15	0.00
5.20	0.00	5.20	0.00
5.25	0.00	5.25	0.00
5.30	0.00	5.30	0.00
5.35	0.00	5.35	0.00
5.40	0.00	5.40	0.00
5.45	0.00	5.45	0.00
5.50	0.00	5.50	0.00

T0-252

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 °C , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 °C , Duration:5±0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 °C/sec.

260±5

10±1 sec.

Temp.:260±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	6	30,000	13 ×16	360×360×50	380×335×366

/ 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	575×290×180