

١٠ / Descriptions

TO-251 N MOS N-CHANNEL MOSFET in a TO-251 Plastic Package.

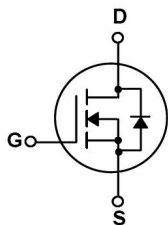
• ١١ / Features

, $R_{DS(on)}$,
Low gate charge, Low ON Resistance, fast switching.

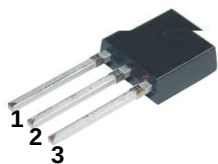
١٢ / Applications

Power switch circuit of adaptor and charger.

١٣ / Equivalent Circuit



١٤ / Pinning



PIN1 G PIN 2 D PIN 3 S

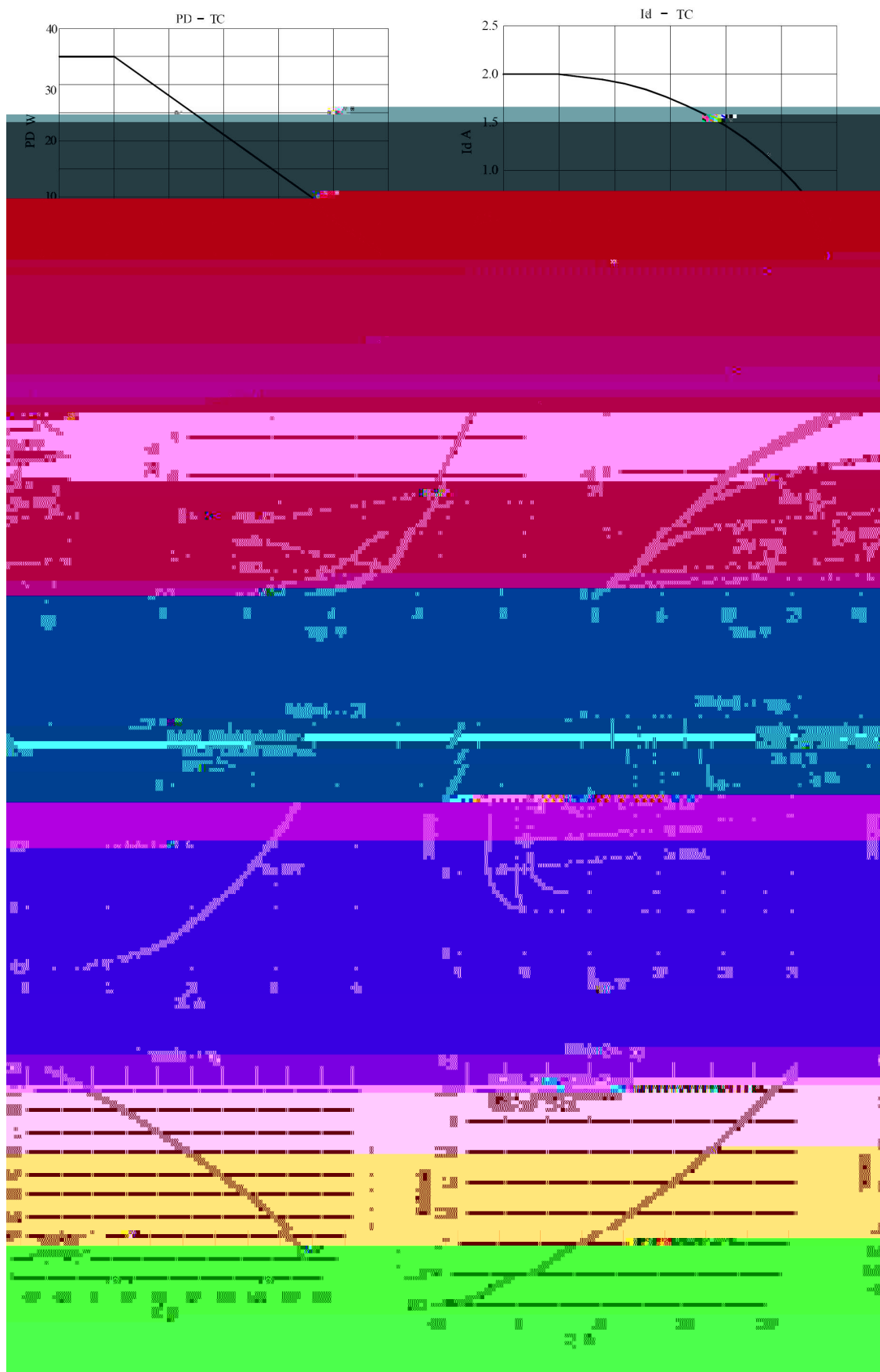
١٥ / Marking

See Marking Instructions.

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{DD}=350V$ $I_D=2.0A$ $V_{GS}=10V$ $R_G=25\Omega$		7.8		ns
Turn-On Rise Time	t_r			5.5		ns
Turn-Off Delay Time	$t_{d(off)}$			33		ns
Turn-Off Fall Time	t_f			16		ns
Total Gate Charge	Q_g	$I_D=2.0A$ $V_{DD}=350V$ $V_{GS}=10V$		8.5		nC
Gate to Source Charge	Q_{gs}			1.5		nC

Gate to Drain (“ Miller ”)

Electrical Characteristic Curve



Electrical Characteristic Curve

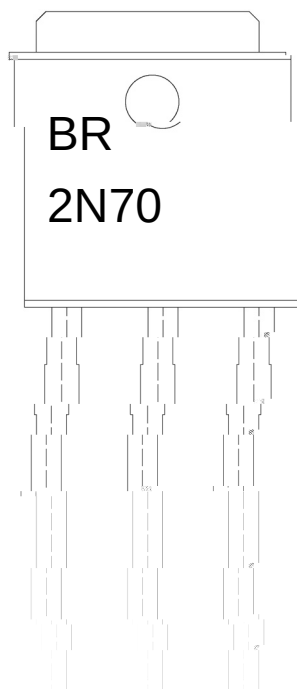


BRI2N70

Technical drawing of a mechanical part, showing front and side views. The front view (left) is a square with a central circular hole. Dimensions are labeled: A (total width), A_1 (width of the central hole), B (total height), and B_1 (height of the central hole). The side view (right) shows the profile of the part, with dimensions C (total depth) and C_1 (depth of the central hole). The part is shown in a cross-section with a light gray top layer and a dark gray bottom layer.

90	1.25	C	0.55		B	
95	1.25	C1	0.45	0.55	B1	
20	2.40	C	2.64	2.84	C	

4. 1. 1 / Marking Instructions



BR

2N70

Note:

BR: Company Code

2N70: Product Type.

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

↓ \$ ¶ ŵ'E M f (ŴŹ) / Temperature Profile for Dip Soldering(Pb-Free)



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			