

BRCS90P03DP

/ Absolute Maximum Ratings(Ta=25)

				℃
	≤	θ		

/ Electrical Characteristics(Ta=25)

						μ
						μ
		μ				
						Ω
		Ω				

/ Electrical Characteristics(Ta=25)

		μ				

θ

μ

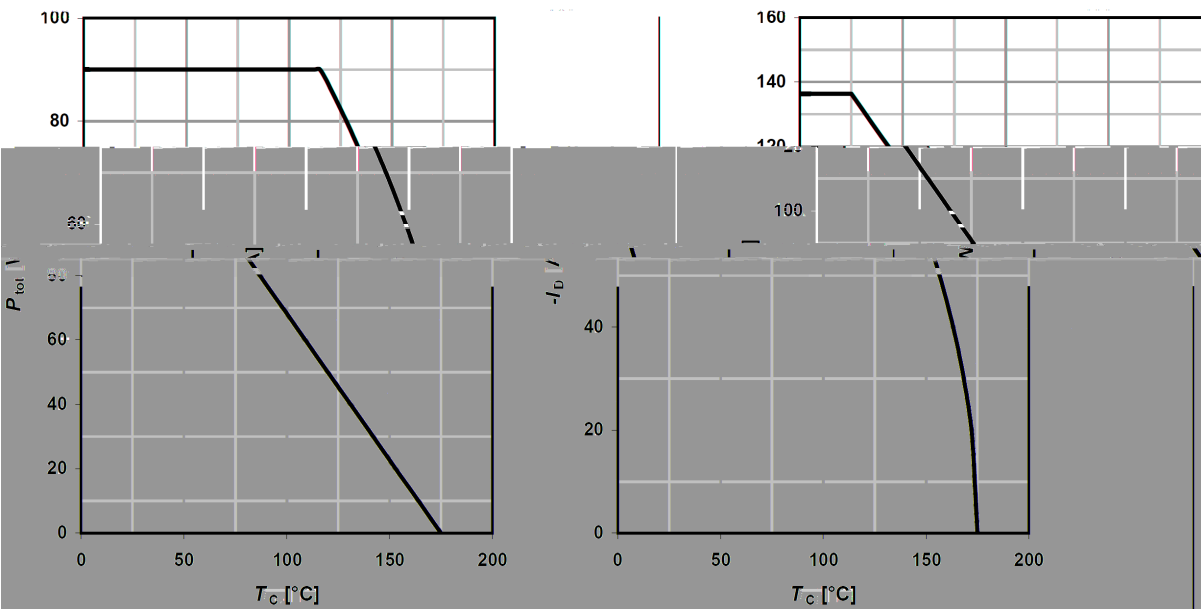
/ Electrical Characteristic Curve

1 Power dissipation

2 Drain current

$P_{tot} = f(T_C); V_{GS} \leq -6V$

$I_D = f(T_C); V_{GS} \leq$



Safe operating area

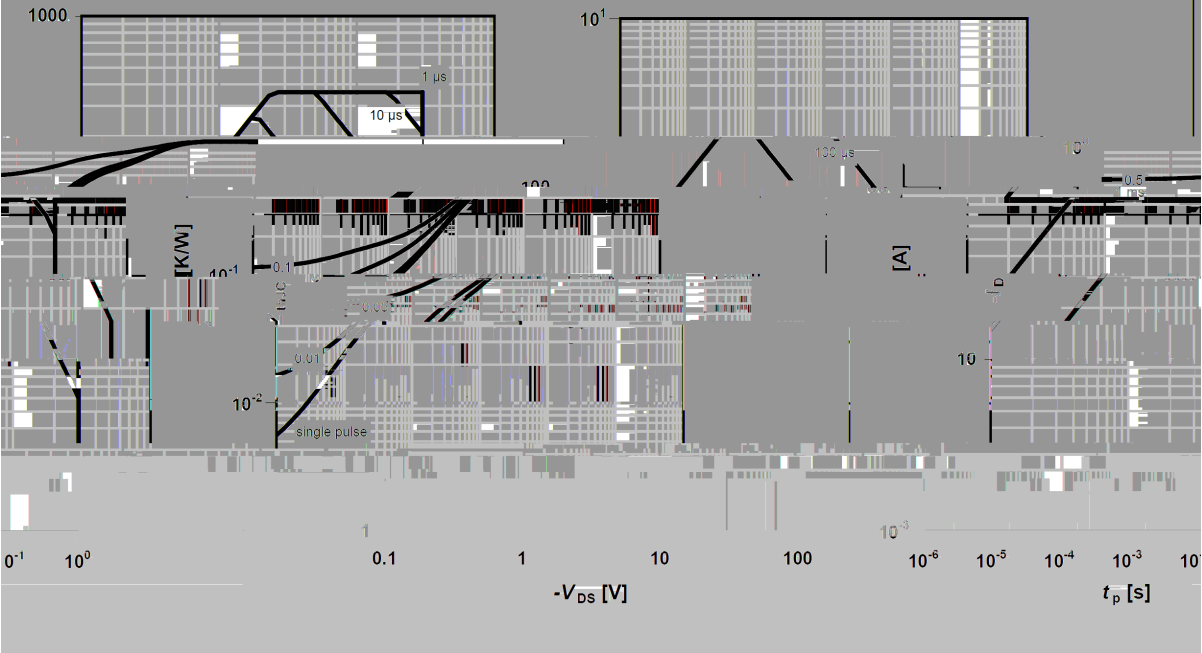
4 Max. transient thermal impedance

$I_D = f(V_{DS}); T_C = 25\text{ °C}; D = 0$

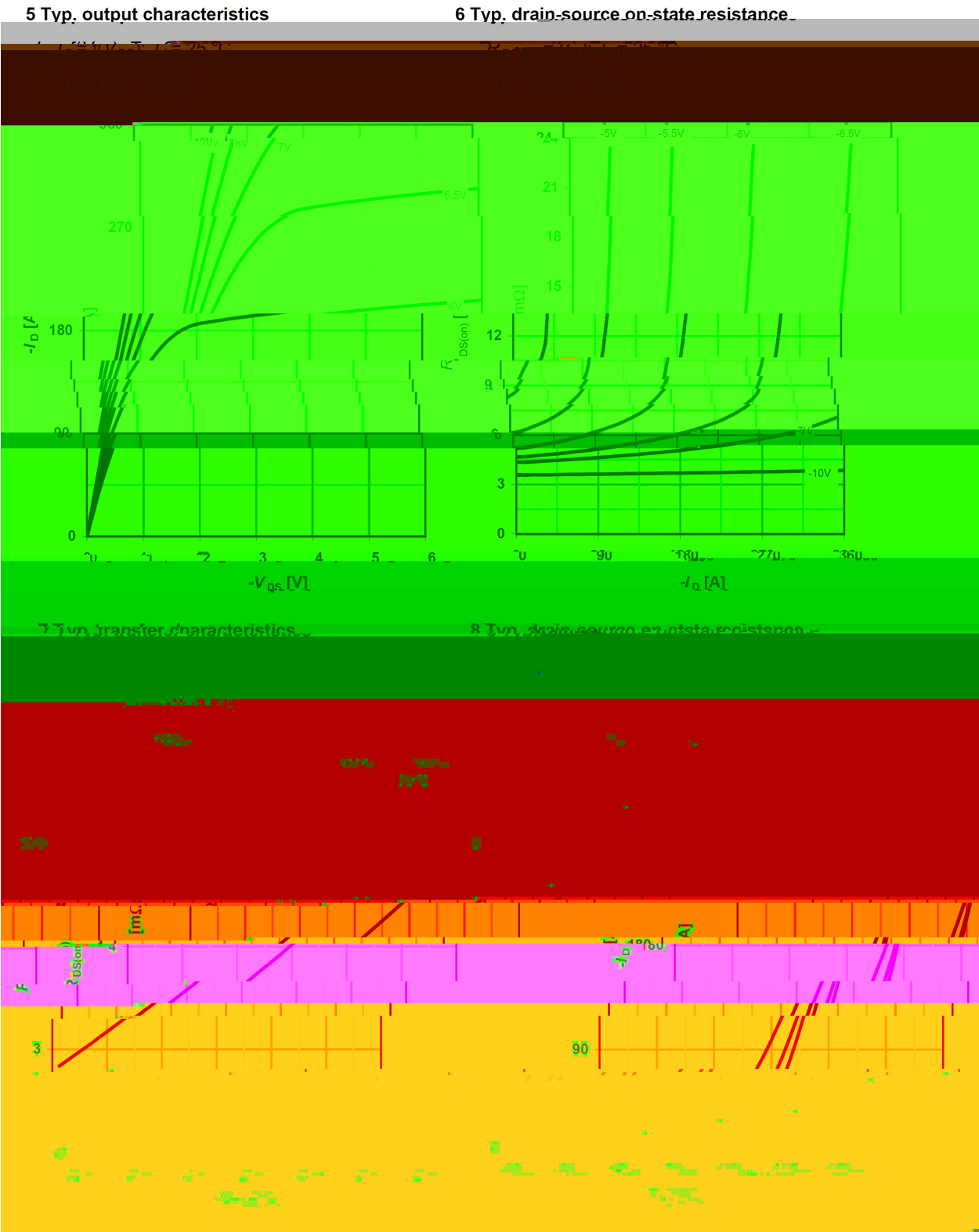
$Z_{thJC} = f(t_p)$

parameter: t_p

parameter: $D = t_p/T$



/ Electrical Characteristic Curve

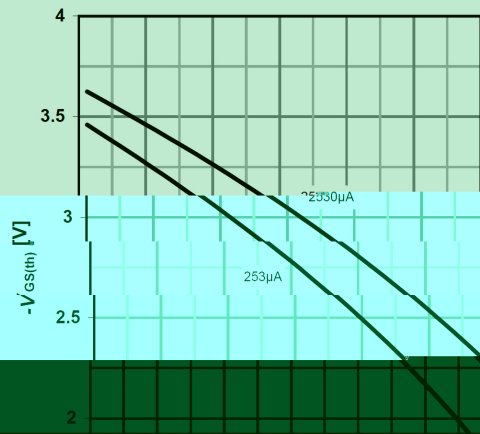


/ Electrical Characteristic Curve

9 Typ. gate threshold voltage

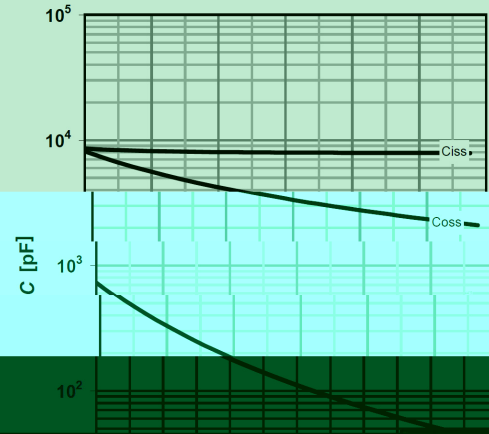
$$V_{GS(th)} = f(T_j); V_{DS} = V_{DS}$$

parameter: $-I_D$



10 Typ. capacitances

$$C = f(V_{GS}); V_{GS} = 0.5 V_G; f_s = 1 \text{ MHz}$$



(a)

I_D [A] 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0

I_D [A]

11 Typical forward diode characteristics

$$I_D = -I_{FS}$$

parameter: V_{GS}

10^3

(b)

V_{GS} [V] 0 1 2 3 4 5 6 7 8 9 10

V_{GS} [V]

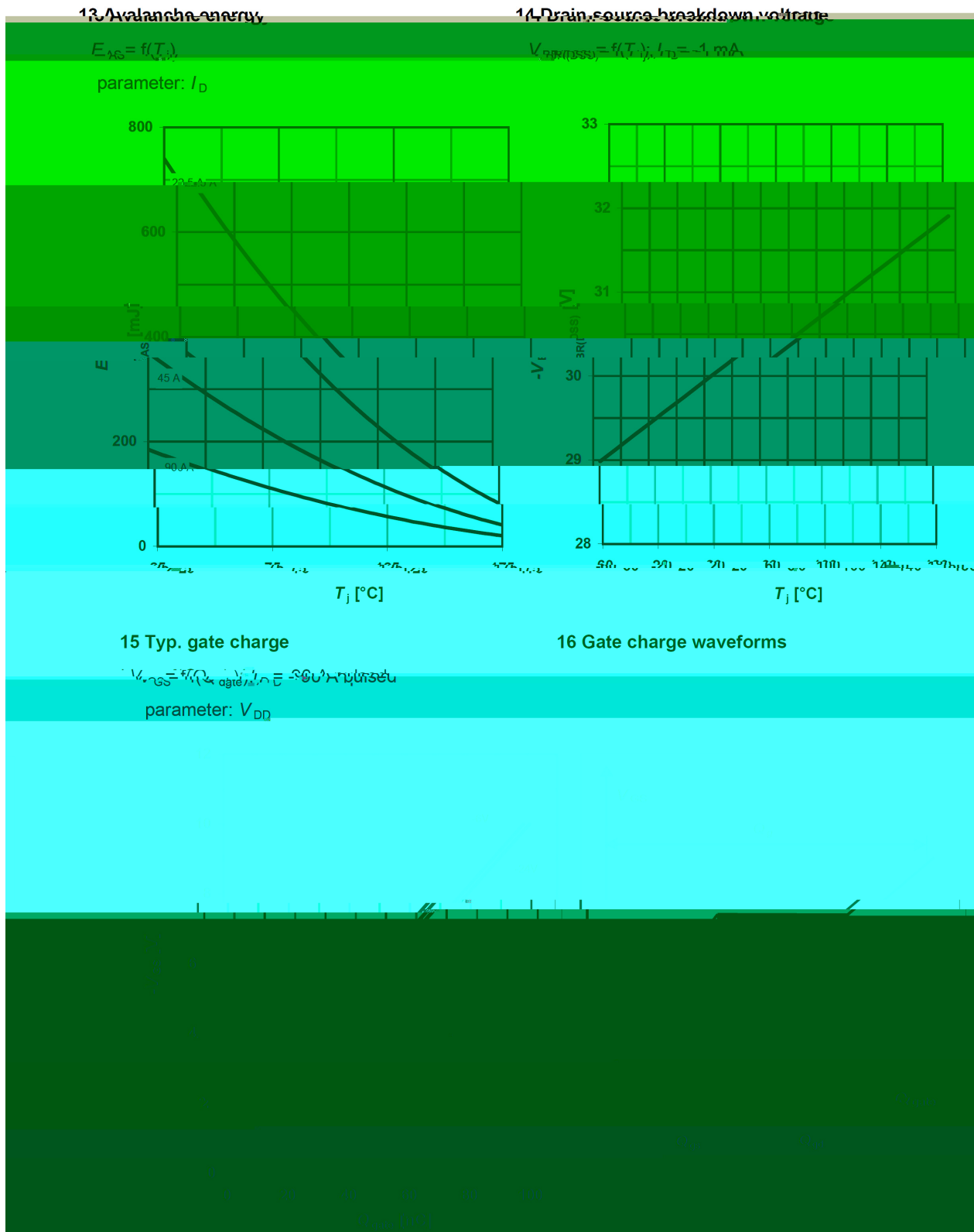
12 Avalanche characteristics

$$I_{AS} = I_{FS}$$

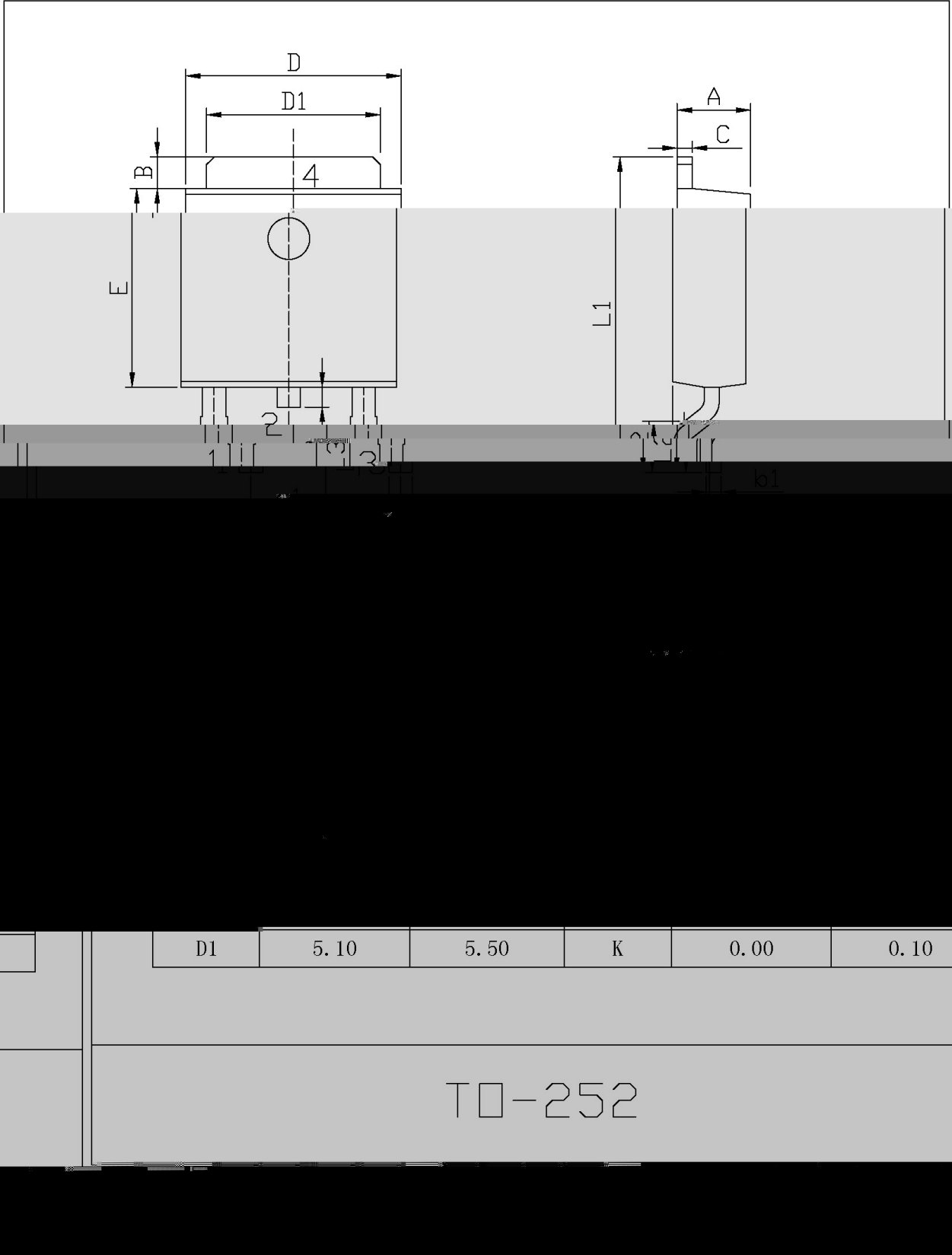
parameter: V_{GS}

10^3

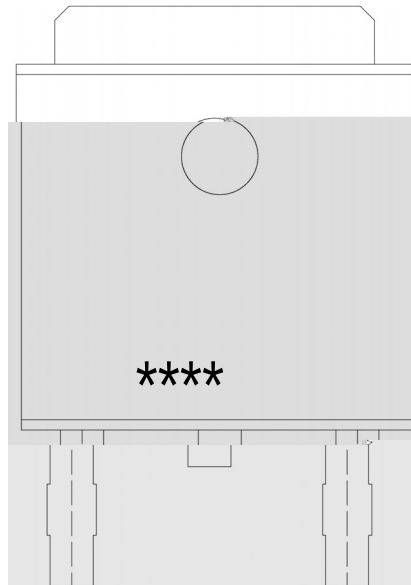
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



90P03

90P03

$\pm$ $\pm$ $\pm$ $\pm$ $\pm$ $\pm$

°C

封装形式	包装数量					包装尺寸		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	5	25,000	13 ×16	360×360×50	385×257×392

封装形式	包装数量					包装尺寸		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

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