2SK3004

External dimensions 1 ..... FM20

Absolute Maximum Ratings (Ta = 25ºC)

Symbol	Ratings	Unit
V_{DSS}	250	V
V_{GSS}	±20	V
I_D	±18	A
$I_{D\,(pulse)}$ *1	±72	A
P_D	35 (Tc = 25ºC)	W
E_{AS} *2	120	mJ
I_{AS}	18	A
Tch	150	ºC
Tstg	–55 to +150	ºC

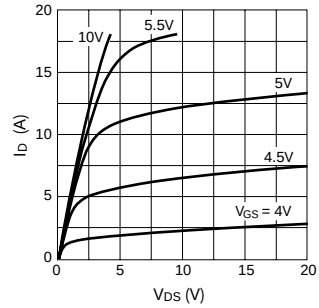
*1: Pw≦100µs, duty cycle≦1%
*2: V_{DD} = 25V, L = 670µH, I_L = 18A, unclamped, R_G = 50Ω, See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25ºC)

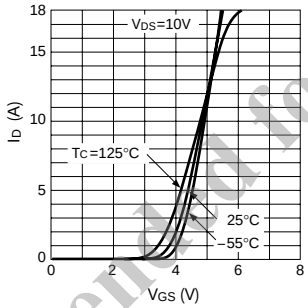
Symbol	Ratings min	Ratings typ	Ratings max	Unit	Conditions
$V_{(BR)DSS}$	250			V	I_D = 100µA, V_{GS} = 0V
I_{GSS}			±100	nA	V_{GS} = ±20V
I_{DSS}			100	µA	V_{DS} = 250V, V_{GS} = 0V
V_{TH}	2.0		4.0	V	V_{DS} = 10V, I_D = 1mA
$Re_{(yfs)}$	7	11		S	V_{DS} = 10V, I_D = 9A
$R_{DS(on)}$		200	250	mΩ	V_{GS} = 10V, I_D = 9A
Ciss		850		pF	V_{DS} = 10V, f = 1.0MHz, V_{GS} = 0V
Coss		550		pF	
Crss		250		pF	
$t_{d(on)}$		20		ns	I_D = 9A, V_{DD} ≒ 100V, R_L = 11.1Ω, V_{GS} = 10V, See Figure 2 on Page 5.
t_r		50		ns	
$t_{d(off)}$		65		ns	
t_f		80		ns	
V_{SD}		1.0	1.5	V	I_{SD} = 18A, V_{GS} = 0V
t_{rr}		700		ns	I_{SD} = ±100mA

Not Recommended for New Designs

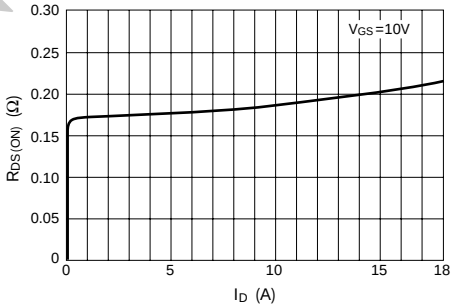
I_D – V_{DS} Characteristics (typical)



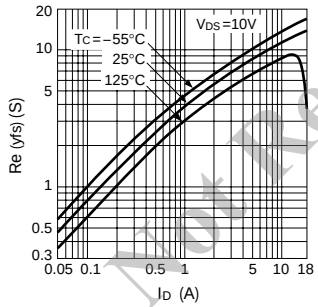
I_D – V_{GS} Characteristics (typical)



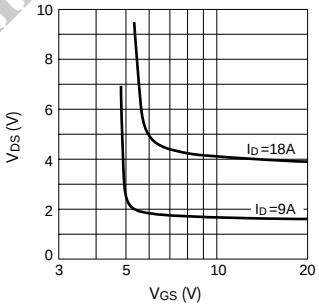
$R_{DS(ON)}$ – I_D Characteristics (typical)



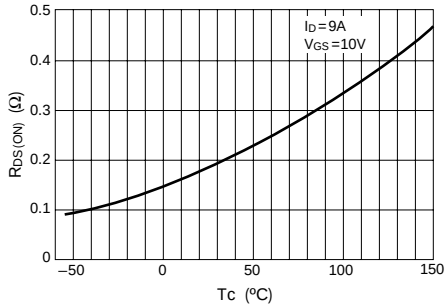
$Re_{(yfs)}$ – I_D Characteristics (typical)



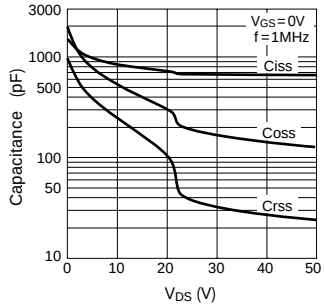
V_{DS} – V_{GS} Characteristics (typical)



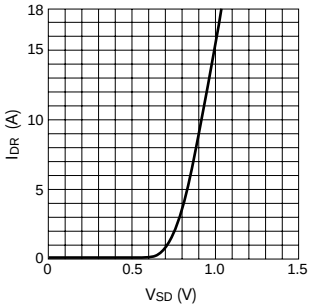
$R_{DS(ON)}$ – T_C Characteristics (typical)



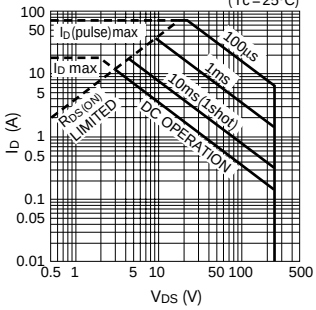
Capacitance – V_{DS} Characteristics (typical)



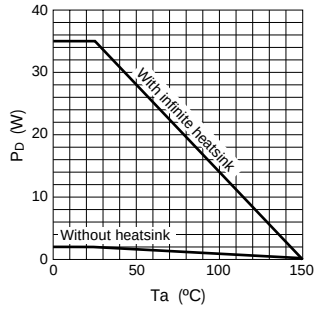
I_{DR} – V_{SD} Characteristics (typical)



Safe Operating Area (Tc = 25ºC)



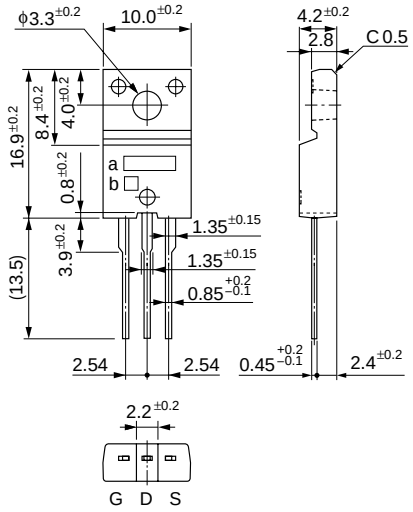
P_D – Ta Characteristics



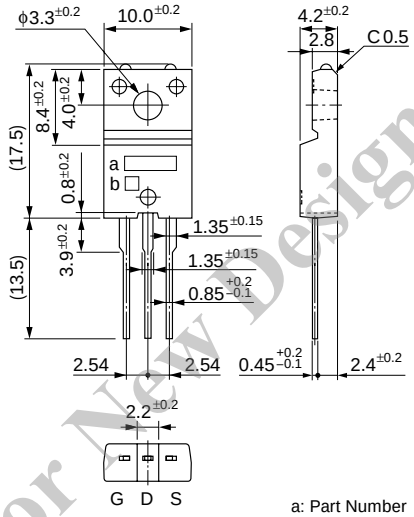
External dimensions (Unit: mm)

❶ FM20 (TO-220F)

General product



UL approved product

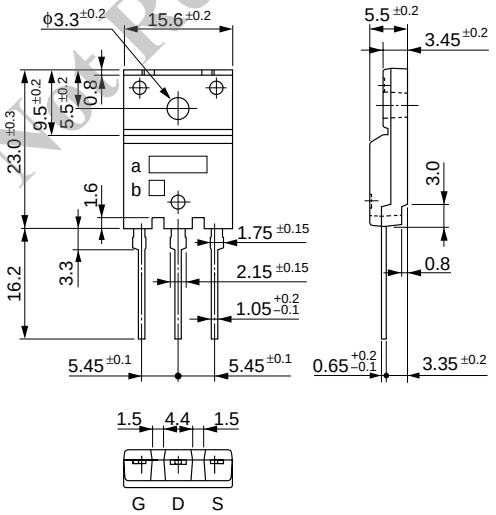


a: Part Number
b: Lot Number

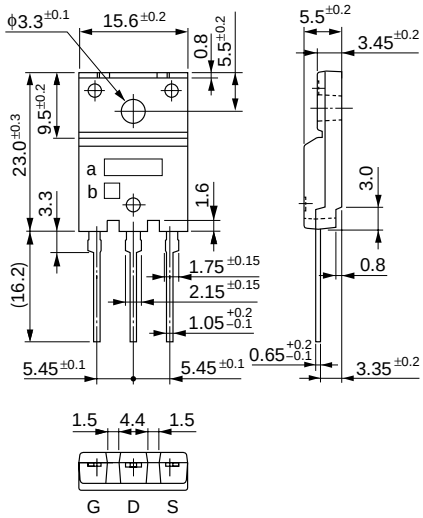
Weight: Approx 2.0g

❷ FM100 (TO-3PF)

General product



UL approved product



a: Part Number
b: Lot Number

Weight: Approx 6.5g

Not Recommended for New Designs

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