2SK2420

External dimensions 1 ..... FM20

Absolute Maximum Ratings (Ta = 25ºC)

Symbol	Ratings	Unit
V_{DSS}	60	V
V_{GSS}	±20	V
I_D	±30	A
$I_{D\ (pulse)}$ *1	±120	A
P_D	40 (Tc = 25ºC)	W
E_{AS} *2	38	mJ
Tch	150	ºC
Tstg	–55 to +150	ºC

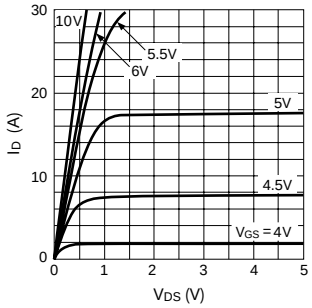
*1: $P_W \leqq 100\mu s$, duty cycle ≦ 1%
*2: $V_{DD} = 50V$, $L = 50\mu H$, $I_L = 30A$, unclamped, $R_G = 50\Omega$, See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25ºC)

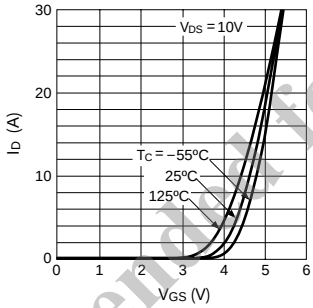
Symbol	Ratings min	Ratings typ	Ratings max	Unit	Conditions
$V_{(BR)\ DSS}$	60			V	$I_D = 100\mu A$, $V_{GS} = 0V$
I_{GSS}			±100	nA	$V_{GS} = \pm 20V$
I_{DSS}			100	μA	$V_{DS} = 60V$, $V_{GS} = 0V$
V_{TH}	2.0		4.0	V	$V_{DS} = 10V$, $I_D = 250\mu A$
$Re_{(yfs)}$	13	20		S	$V_{DS} = 10V$, $I_D = 15A$
$R_{DS\ (on)}$		21	28	mΩ	$V_{GS} = 10V$, $I_D = 15A$
Ciss		2200		pF	$V_{DS} = 25V$, f = 1.0MHz, $V_{GS} = 0V$
Coss		850		pF	
t_{on}		210		ns	$I_D = 15A$, $V_{DD} \fallingdotseq 30V$, $R_L = 2\Omega$, $V_{GS} = 10V$, See Figure 2 on Page 5.
t_{off}		145		ns	

Not Recommended for New Design

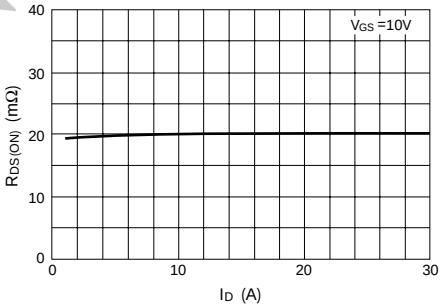
I_D – V_{DS} Characteristics (typical)



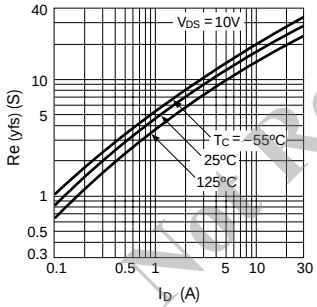
I_D – V_{GS} Characteristics (typical)



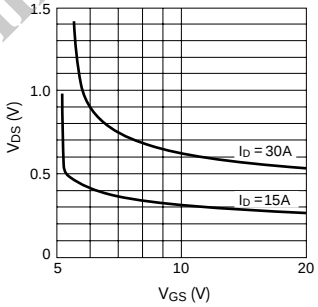
$R_{DS(ON)}$ – I_D Characteristics (typical)



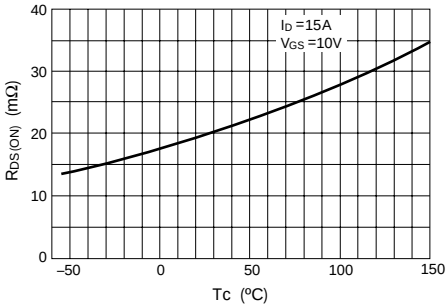
$Re_{(yfs)}$ – I_D Characteristics (typical)



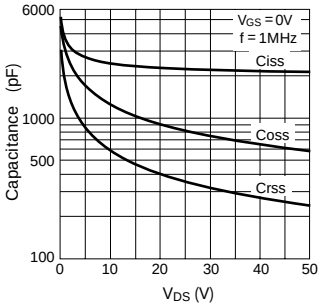
V_{DS} – V_{GS} Characteristics (typical)



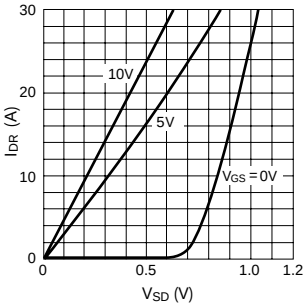
$R_{DS(ON)}$ – T_C Characteristics (typical)



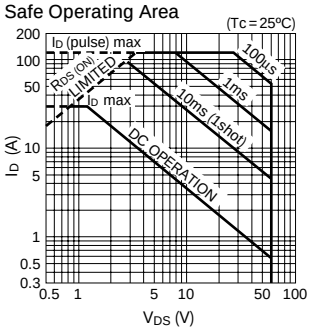
Capacitance – V_{DS} Characteristics (typical)



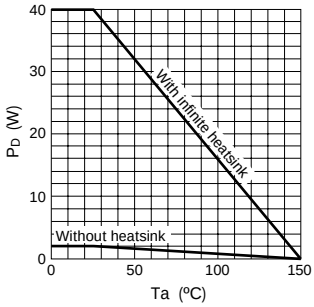
I_{DR} – V_{SD} Characteristics (typical)



Safe Operating Area (Tc = 25ºC)



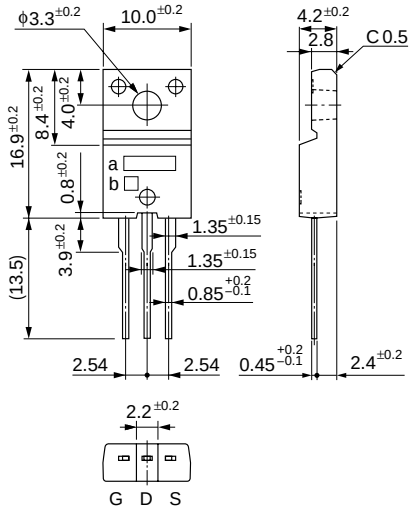
P_D – Ta Characteristics



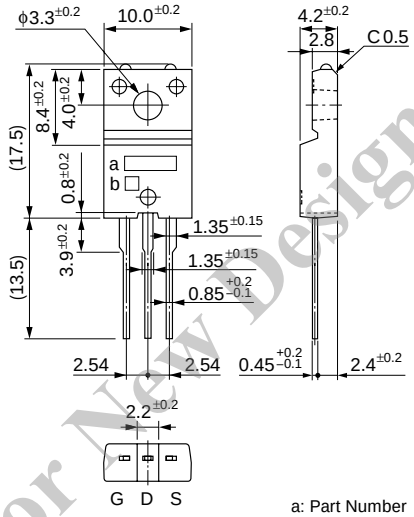
External dimensions (Unit: mm)

❶ FM20 (TO-220F)

General product



UL approved product

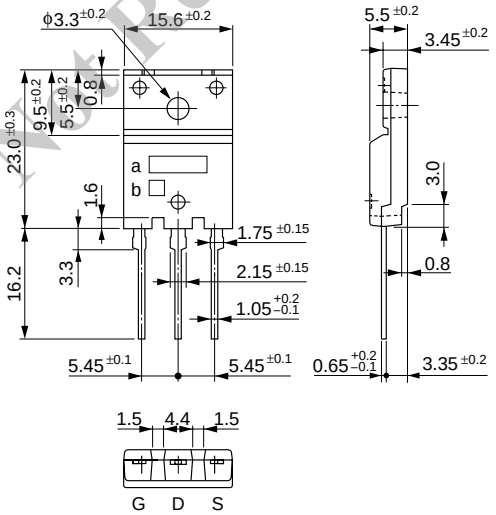


a: Part Number
b: Lot Number

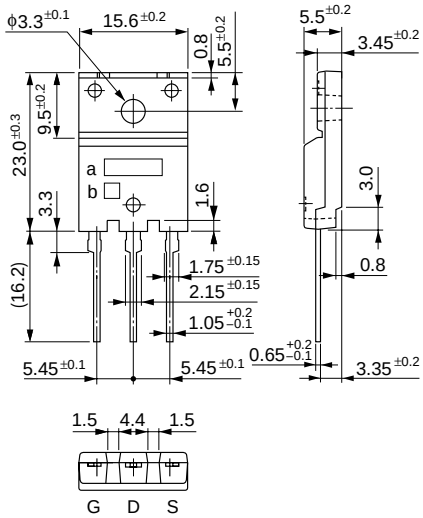
Weight: Approx 2.0g

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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