

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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2SK3003

External dimensions 1 FM20

Absolute M	(Ta = 25ºC)	
Symbol	Ratings	Unit
V _{DSS}	200	V
Vgss	±20	V
ID	±18	Α
I _{D (pulse)} *1	±72	Α
PD	35 (Tc = 25°C)	W
E _{AS} *2	120	mJ
IAS	18	Α
Tch	150	ōС
Tstg	–55 to +150	ōС

Electrical Characteristics

(Ta = 25°C)

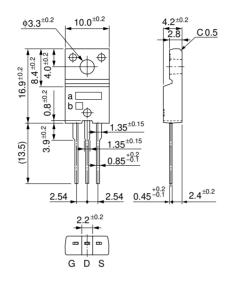
Symbol	Ratings		Unit	Conditions		
Symbol	min	typ	max	Ullit	Conditions	
V(BR) DSS	200			V	$I_D = 100 \mu A$, $V_{GS} = 0 V$	
Igss			±100	nA	$V_{GS} = \pm 20V$	
IDSS			100	μΑ	V _{DS} = 200V, V _{GS} = 0V	
V _{TH}	2.0		4.0	V	$V_{DS} = 10V$, $I_{D} = 1mA$	
Re _(yfs)	7	11		S	V _{DS} = 10V, I _D = 9A	
RDS(on)		130	175	mΩ	VGS = 10V, ID = 9A	
Ciss		850		pF	V _{DS} = 10V, f = 1.0MHz, V _{GS} = 0V	
Coss		550		pF		
Crss		250		pF		
td(on)		20		ns	I _D = 9A, V _{DD} ≒100V, R _L = 11.1Ω, V _{GS} = 10V, See Figure 2 on Page 5.	
tr		50		ns		
td (off)		65		ns		
tr		80		ns		
VsD		1.0	1.5	V	ISD = 18A, VGS = 0V	
trr		500		ns	$I_{SD} = \pm 100 \text{mA}$	

^{*1:} $Pw \le 100 \mu s$, duty cycle $\le 1\%$ *2: $V_{DD} = 25V$, L = 650 μH , lL = 18A, unclamped, $R_G = 50\Omega$, See Figure 1 on Page 5.

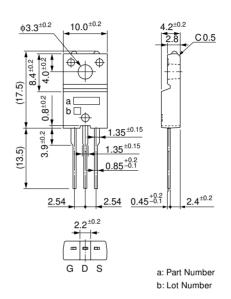
External dimensions (Unit: mm)

● FM20 (TO-220F)

General product



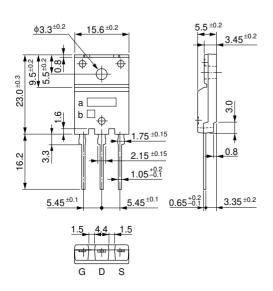
UL approved product



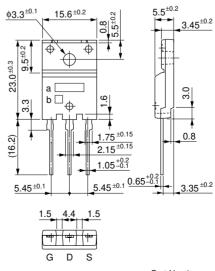
Weight: Approx 2.0g

2 FM100 (TO-3PF)

General product



UL approved product



a: Part Number b: Lot Number

Weight: Approx 6.5g