

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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Absolute Maximum Ratings

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Symbol	Ratings	Unit				
V _{DSS}	900	٧				
Vgss	±30	V				
ID	±3	Α				
I _{D (pulse)} *1	±12	Α				
PD	30 (Tc = 25°C)	W				
Eas *2	60	mJ				
IAS	3	Α				
Tch	150	ōС				
Tstg	-55 to +150	ōС				

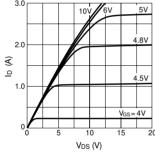
- *1: Pw≤100μs, duty cycle≤1%
- *2: V_{DD} = 50V, L = 13mH, I_L = 3A, unclamped, R_G = 50Ω, See Figure 1 on Page 5.

Electrical Characteristics

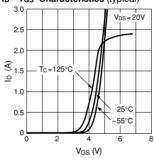
(Ta = 25°C)

Symbol	Ratings			Unit	Conditions	
	min	typ	max	Offic	Conditions	
V(BR)DSS	900			V	$I_D = 100 \mu A$, $V_{GS} = 0 V$	
Igss			±100	nA	Vgs = ±30V	
IDSS			100	μΑ	V _{DS} = 900V, V _{GS} = 0V	
VTH	2.0		4.0	V	V _{DS} = 10V, I _D = 1mA	
Re (yfs)	1.8	2.8		S	V _{DS} = 20V, I _D = 1.5A	
RDS(on)		4.0	5.0	Ω	Vgs = 10V, ID = 1.5A	
Ciss		600		pF	Vps = 10V, f = 1.0MHz, Vgs = 0V	
Coss		100		pF		
Crss		40		pF		
td (on)		20		ns	I_D = 1.5A, V_{DD} \rightleftharpoons 250V, R_L = 167 Ω , V_{GS} = 10V See Figure 2 on Page 5.	
tr		30		ns		
td(off)		65		ns		
tf		100		ns		
VsD		1.0	1.5	V	ISD = 3A, VGS = 0V	

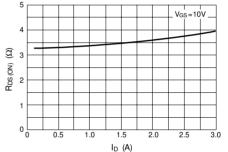
ID - VDS Characteristics (typical)



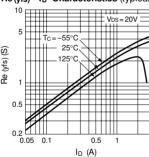
ID - VGs Characteristics (typical)



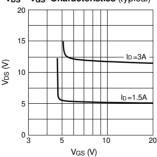
RDS(ON) - ID Characteristics (typical)



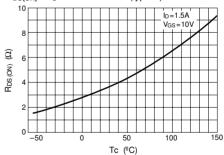
Re (yfs) - ID Characteristics (typical)



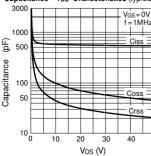
V_{DS} - V_{GS} Characteristics (typical)



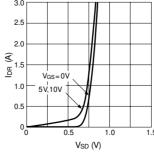
R_{DS(ON)} - T_C Characteristics (typical)



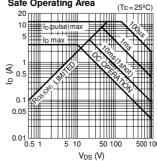
Capacitance - V_{DS} Characteristics (typical)



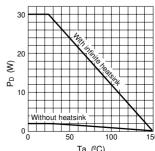
IDR - VSD Characteristics (typical) 3.0



Safe Operating Area



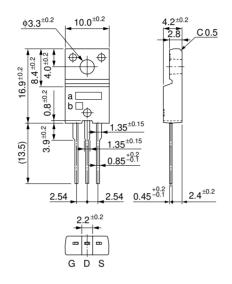
P_D - Ta Characteristics



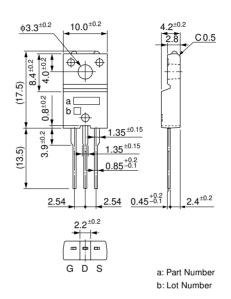
External dimensions (Unit: mm)

● FM20 (TO-220F)

General product



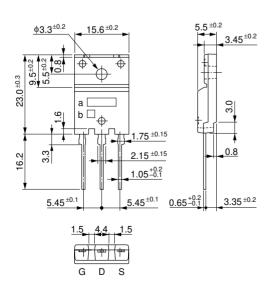
UL approved product



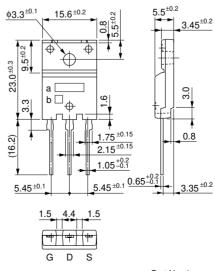
Weight: Approx 2.0g

2 FM100 (TO-3PF)

General product



UL approved product



a: Part Number b: Lot Number

Weight: Approx 6.5g