2SK2943

External dimensions 1 FM20

Absolute Maximum Ratings

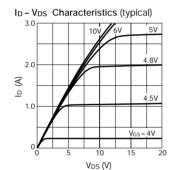
Absolute Maximum Ratings (a=					
Symbol	Ratings	Unit			
V _{DSS}	900	V			
Vgss	±30	V			
ID	±3	А			
I _{D (pulse)} *1	±12	Α			
PD	30 (Tc = 25°C)	W			
E _{AS} *2	60	mJ			
IAS	3	Α			
Tch	150	°C			
Tstg	−55 to +150	°C			

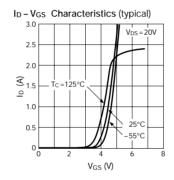
- *1: Pw≤100μs, duty cycle≤1%
- *2: V_{DD} = 50V, L = 13mH, I_L = 3A, unclamped, R_G = 50Ω, See Figure 1 on Page 5.

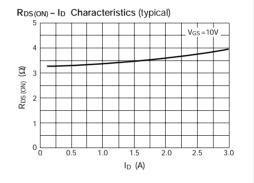
Electrical Characteristics

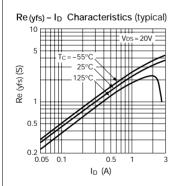
(Ta = 25°C)

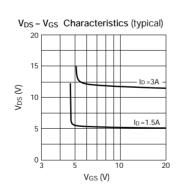
Symbol	Ratings			Unit	Conditions	
Зуппоот	min typ max	Offit				
V(BR)DSS	900			V	$I_D = 100 \mu A$, $V_{GS} = 0 V$	
Igss			±100	nA	VGS = ±30V	
IDSS			100	μΑ	V _{DS} = 900V, V _{GS} = 0V	
VTH	2.0		4.0	V	V _{DS} = 10V, I _D = 1mA	
Re (yfs)	1.8	2.8		S	V _{DS} = 20V, I _D = 1.5A	
RDS(on)		4.0	5.0	Ω	VGS = 10V, ID = 1.5A	
Ciss		600		pF		
Coss		100		pF	V _{DS} = 10V, f = 1.0MHz, V _{GS} = 0V	
Crss		40		pF		
td(on)		20		ns	$I_D = 1.5A$, $V_{DD} \rightleftharpoons 250V$, $R_L = 167\Omega$, $V_{GS} = 10V$ 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	

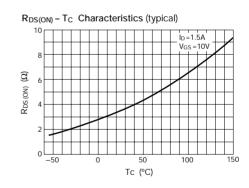


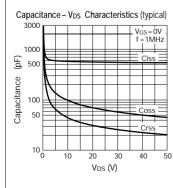


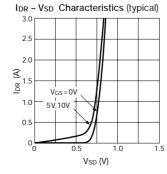


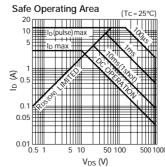


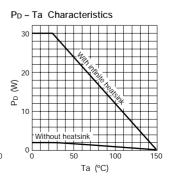








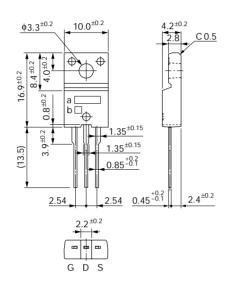




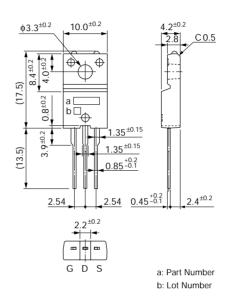
External dimensions (Unit: mm)

1 FM20 (TO-220F)

General product



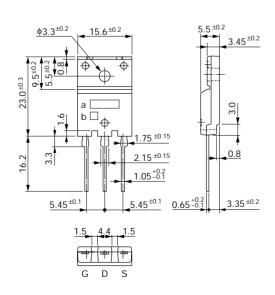
UL approved product



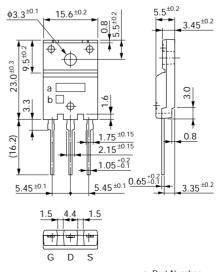
Weight: Approx 2.0g

2 FM100 (TO-3PF)

General product



UL approved product



a: Part Number b: Lot Number

Weight: Approx 6.5g