mail

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!



Contact us

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2SK2803

External dimensions 1 FM20

Absolute Maximum Ratings (Ta = 25°C)

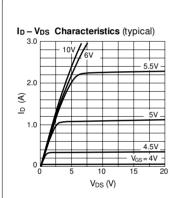
Symbol	Ratings	Unit
VDSS	450	V
Vgss	±30	V
ID	±3	А
I _{D (pulse)} *1	±12	А
PD	30 (Tc = 25⁰C)	W
Eas *2	30	mJ
las	3	А
Tch	150	°C
Tstg	–55 to +150	°C

Electrical Characteristics

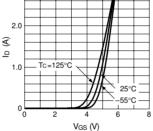
Electrical Characteristics (Ta=25°C)							
Symbol	Ratings			Unit	Conditions		
	min	typ	max	Unit	Conditions		
V(BR) DSS	450			V	$I_D=100\mu A,\ V_{GS}=0V$		
IGSS			±100	nA	$V_{GS} = \pm 30 V$		
IDSS			100	μA	$V_{DS} = 450V, V_{GS} = 0V$		
Vth	2.0		4.0	V	$V_{DS} = 10V, I_D = 1mA$		
Re (yfs)	1.5	2.1		S	$V_{DS} = 20V, I_D = 1.5A$		
RDS (on)		2.1	2.8	Ω	VGS = 10V, ID = 1.5A		
Ciss		340		рF			
Coss		75		pF	VDS = 10V, f = 1.0MHz, VGS = 0V		
Crss		26		pF	VG3=0V		
td (on)		18		ns	ID = 1.5A, VDD ≒ 200V,		
tr		30		ns			
td (off)		45		ns	$R_L = 133\Omega$, $V_{GS} = 10V$, See Figure 2 on Page 5.		
tf		85		ns	3 - - 3 -		
Vsd		0.9	1.4	V	ISD = 3A, VGS = 0V		

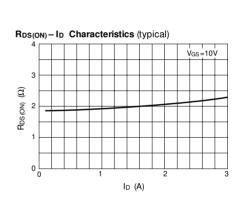
*1: $Pw \leq 100 \mu s$, duty cycle $\leq 1\%$

*2: V_{DD} = 30V, L = 6.3mH, IL = 3.0A, unclamped, RG = 50 Ω , See Figure 1 on Page 5.

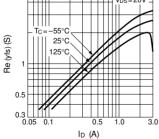


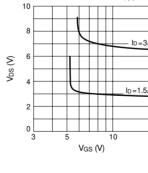
ID-VGS Characteristics (typical) 3.0 V_{DS}=20V



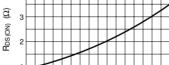








ID=3A In=1.5A 20

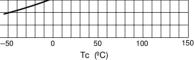


RDS(ON) - Tc Characteristics (typical)

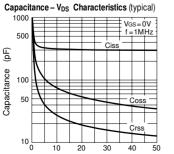
5

ol

(Tc= - 25°C

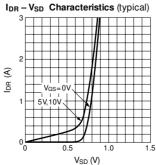


 $l_{D} = 1.5A$ Vgs=10



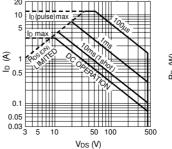
VDS (V)

10 20 30 40 50





€



P_D – Ta Characteristics

