2SK763, 2SK763A

Silicon N-channel Power F-MOS FET

■ Features

- Low ON resistance R_{DS} (on) : R_{DS} (on) = 0.9 Ω (typ.)
- High switching rate : t_f = 50ns (typ.)
- · No secondary breakdown
- High breakdown voltage

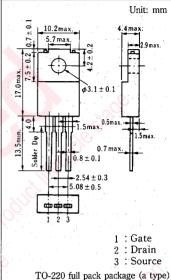
■ Application

- No contact relay
- Solenoid drive
- Motor drive
- Control equipment
- Switching power source

■ Absolute Maximum Ratings (Tc=25°C)

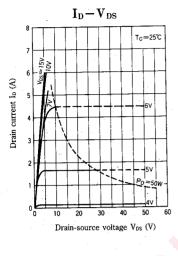
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Item	Symbol	Value	Unit		
Drain-source voltage	2SK763	T/	400	W.	
Diani-source voltage	2SK763A	V _{DSS}	450	V	
Gate-source voltage		V _{GSS}	±20	V	
Drain current	DC	ID	5	Λ ()	
	Peak-to-peak value	I _{DP}	10	70,	
Power dissipation	Tc=25℃	D	50	S W	
	Ta=25℃	P_{D}	2.0	3 .MO).	
Channel temperature	T _{ch}	150	°C		
Storage temperature	T _{stg}	-55~+150	C (
				X X 7	

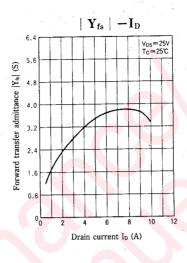
■ Package Dimensions

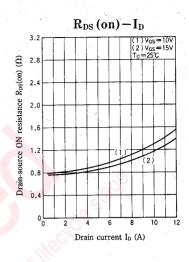


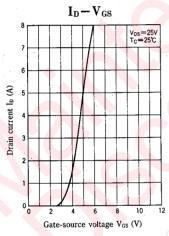
■ Electrical Characteristics (Tc=25°C)

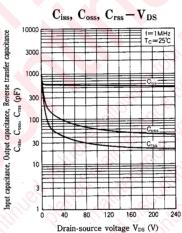
Item		Symbol	Condition	min.	typ.	max.	Unit
Drain current		I _{DSS}	$V_{DS} = 320V, V_{GS} = 0$	100		0.1	mA
Gate-source current	- 6	I_{GSS}	$V_{GS} = \pm 20V, V_{DS} = 0$	dip		±1	μA
Drain-source voltage	2SK763	V _{DSS}	$I_D = 1 \text{ mA}, V_{GS} = 0$	400			v
	2SK763A			450	55,		
Gate threshold voltage		V _{th}	$V_{DS} = 25V, I_{D} = 1mA$	1		5	v V
Drain-source ON resist	ance	R _{DS} (on)	$V_{GS}=10V$, $I_D=3A$		0.9	1.4	Ω
Forward transfer admit	tance	Yfs	$V_{DS}=25V$, $I_{D}=3A$	1.8	3.0	1.5	S
Input capacitance		Ciss		;	600		pF
Output capacitance		Coss	$V_{DS} = 20V, V_{GS} = 0, f = 1MHz$		140		pF
Reverse transfer capacitance		Crss		200	60		pF
Turn-on time ton		ton	$V_{GS} = 10V, I_D = 3A$ $V_{DD} = 150V, R_L = 50 \Omega$		40		ns
Fall time		t _f			50		ns
Delay time		t d (off)	VDD-130V, RL=50Ω		120	1 177	ns

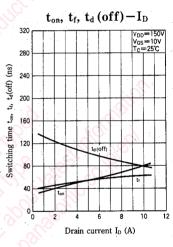


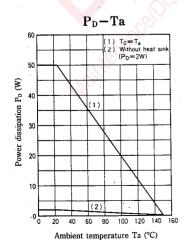


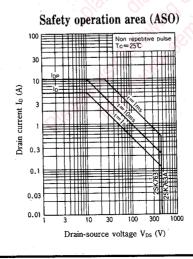


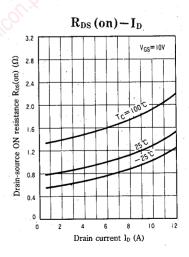












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