

2SK868, 2SK868A

查询"2SK868"供应商

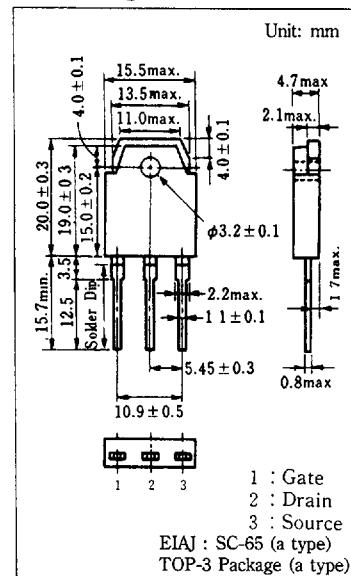
■ Features

- Low ON resistance R_{DS} (on) : R_{DS} (on) = 0.2Ω (typ.)
 - High switching rate : t_f = 150ns (typ.)
 - No secondary breakdown
 - High breakdown voltage, large power

■ Application

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

■ Package Dimensions



■ Absolute Maximum Ratings ($T_c=25^\circ\text{C}$)

Item	Symbol	Value	Unit
Drain-source voltage	2SK868	V _{DSS}	400
	2SK868A		450
Gate-source voltage	V _{GSS}	±20	V
Drain current	DC	I _D	A
	Peak-to-peak value	I _{DP}	
Power dissipation	T _C =25°C	P _D	130
	T _A =25°C		2.5
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-55~+150	°C

■ Electrical Characteristics ($T_c=25^\circ\text{C}$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Drain current	I_{DSS}	$V_{DS}=320V, V_{GS}=0$			0.1	mA
Gate-source current	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0$			± 1	μA
Drain-source voltage	2SK868	V_{DSS}	$I_D = 1\text{ mA}, V_{GS}=0$	400		V
	2SK868A			450		
Gate threshold voltage	V_{th}	$V_{DS}=25V, I_D=1\text{ mA}$	1		5	V
Drain-source ON resistance	$R_{DS(on)}$	$V_{GS}=10V, I_D=10A$		0.2	0.35	Ω
Drain-source ON voltage	$V_{DS(on)}$	$V_{GS}=10V, I_{DS}=20A$			8.0	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS}=25V, I_D=10A$	7.2	12.0		S
Input capacitance	C_{iss}	$V_{DS}=20V, V_{GS}=0, f=1\text{ MHz}$		3000		pF
Output capacitance	C_{oss}			430		pF
Reverse transfer capacitance	C_{rss}			175		pF
Turn-on time	t_{on}	$V_{GS}=10V, I_D=10A$		150		ns
Fall time	t_f			150		ns
Delay time	$t_d(\text{off})$			520		ns

