### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings				Unit	
		Conditions	Rank	min	typ	max	Unit	
Gate-to-Drain Breakdown Voltage	V(BR)GDO	I <sub>G</sub> =-100μA		-20			V	
Cutoff Voltage	VGS(off)	V <sub>DS</sub> =5V, I <sub>D</sub> =1μA			-0.5	-1.0	V	
Drain Current	I <sub>DSS</sub> *	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V	В	150		240	μА	
			С	210		350		
Forward Transfer Admittance	yfs	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V, f=1kHz		0.4	1.0		mS	
Input Capacitance	Ciss	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V, f=1MHz			4.1		рF	
Reverse Transfer Capacitance	Crss	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V, f=1MHz			0.88		рF	
[Ta=25°C, V <sub>CC</sub> =4.5V, R <sub>L</sub> =1kΩ, Cin=15pF, See specified Test Circuit.]								
Voltage Gain	Gy	V <sub>IN</sub> =10mV, f=1kHz	-3.0			dB		
Reduced Voltage Characteristic	ΔGVV	V <sub>IN</sub> =10mV, f=1kHz, V <sub>CC</sub> =4.5V $\rightarrow$ 1.5V			-1.0	-3.5	dB	
Frequency Characteristic	∆Gvf	f=1kHz → 110Hz				-1.0	dB	
Total Harmonic Distortion	THD	V <sub>IN</sub> =30mV, f=1kHz			1.2		%	
Output Noise Voltage	V <sub>NO</sub>	V <sub>IN</sub> =0V, A curve				-110	dB	

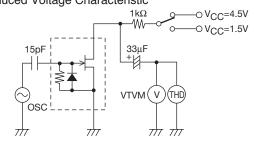
<sup>\* :</sup> The 2SK596S is classified by IDSS as follows : (unit :  $\mu$ A)

Rank	В	С
IDSS	150 to 240	210 to 350

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

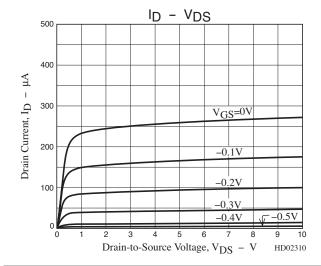
## **Test Circuit**

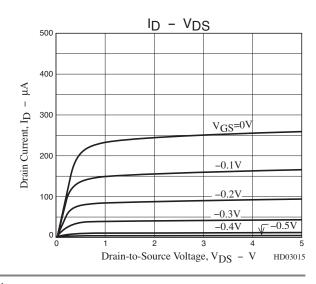
Voltage Gain Frequency Characteristic Harmonic Distortion Reduced Voltage Characteristic

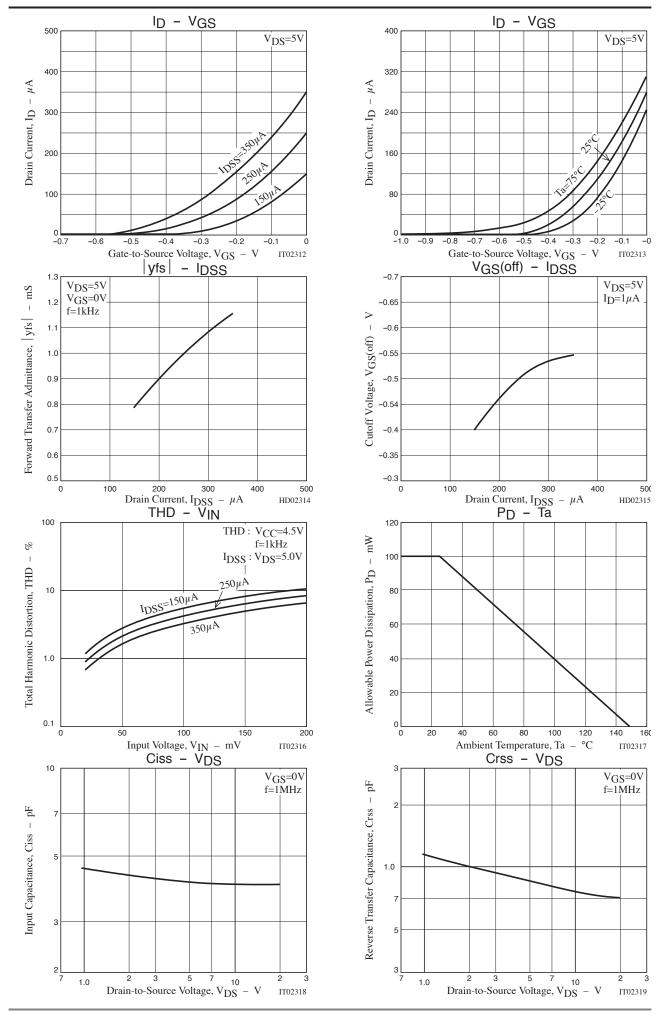


### **ODERING INFORMATON**

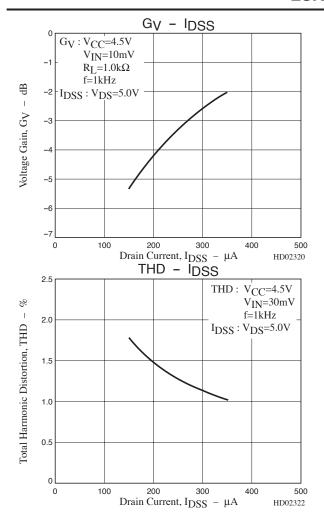
Device	Device Package		memo	
2SK596S-B	SPA	500pcs./bag	Pb-Free	
2SK596S-C	SPA	500pcs./bag		

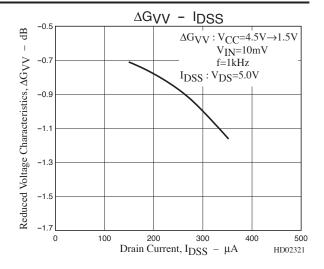






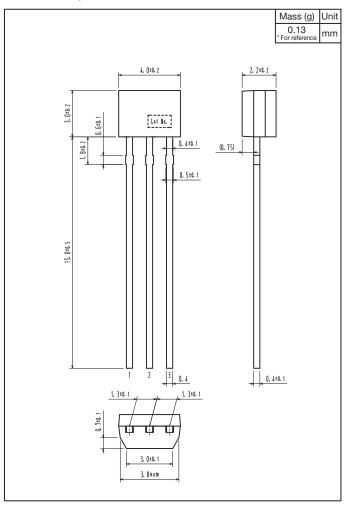
# 2SK596S





### **Outline Drawing**

2SK596S-B, 2SK596S-C



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