

2SK596S

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings				Unit
			Rank	min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDO}$	$I_G = -100\mu A$		-20			V
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5V, I_D = 1\mu A$			-0.5	-1.0	V
Drain Current	I_{DSS}^*	$V_{DS} = 5V, V_{GS} = 0V$	B	150		240	μA
			C	210		350	
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 5V, V_{GS} = 0V, f = 1kHz$		0.4	1.0		mS
Input Capacitance	C_{iss}	$V_{DS} = 5V, V_{GS} = 0V, f = 1MHz$			4.1		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = 5V, V_{GS} = 0V, f = 1MHz$			0.88		pF
[Ta=25°C, $V_{CC} = 4.5V, R_L = 1k\Omega, C_{in} = 15pF$, See specified Test Circuit.]							
Voltage Gain	G_V	$V_{IN} = 10mV, f = 1kHz$			-3.0		dB
Reduced Voltage Characteristic	ΔG_{VV}	$V_{IN} = 10mV, f = 1kHz, V_{CC} = 4.5V \rightarrow 1.5V$			-1.0	-3.5	dB
Frequency Characteristic	ΔG_{vf}	$f = 1kHz \rightarrow 110Hz$				-1.0	dB
Total Harmonic Distortion	THD	$V_{IN} = 30mV, f = 1kHz$			1.2		%
Output Noise Voltage	V_{NO}	$V_{IN} = 0V, A \text{ curve}$				-110	dB

* : The 2SK596S is classified by I_{DSS} as follows : (unit : μA)

Rank	B	C
I_{DSS}	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.

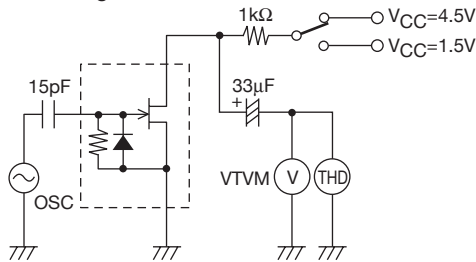
Test Circuit

Voltage Gain

Frequency Characteristic

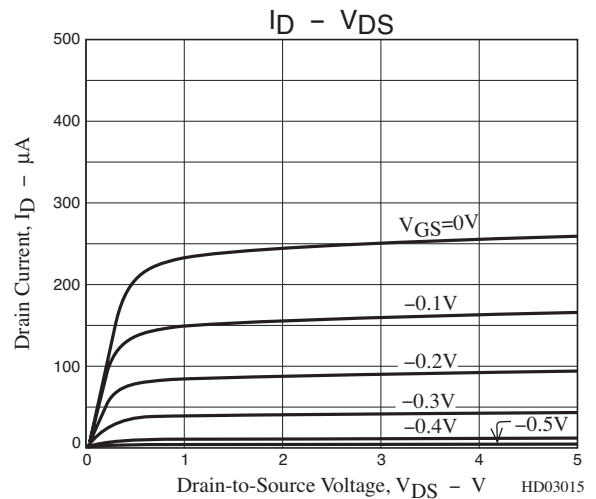
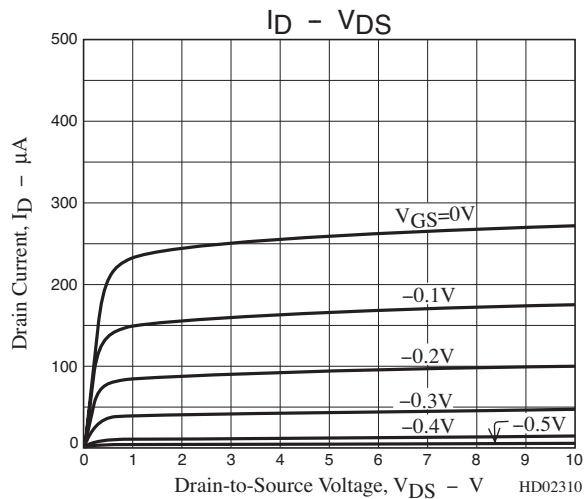
Harmonic Distortion

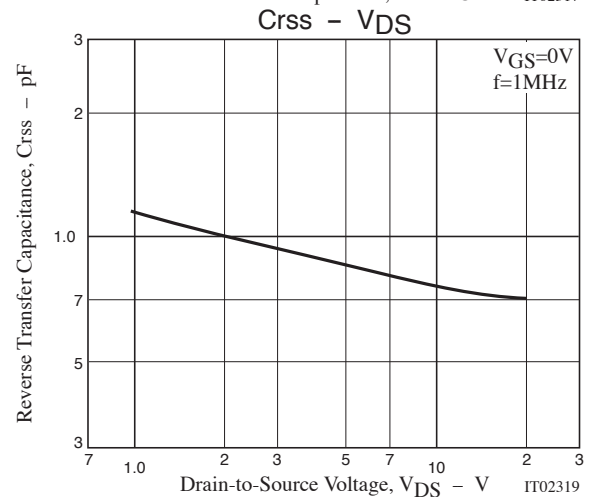
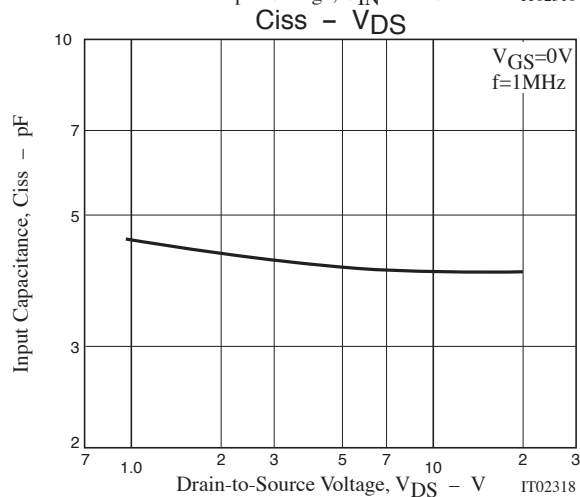
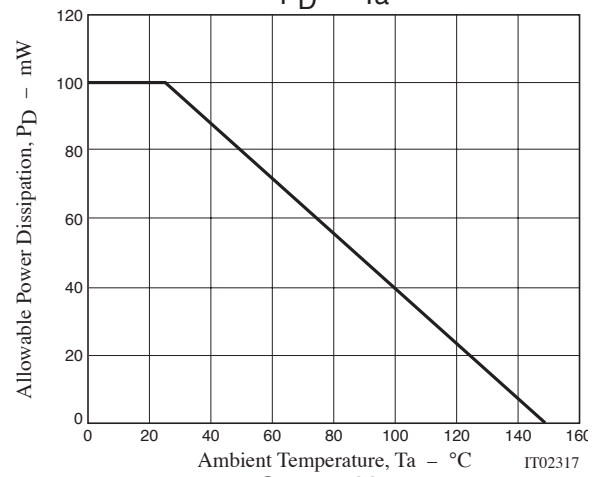
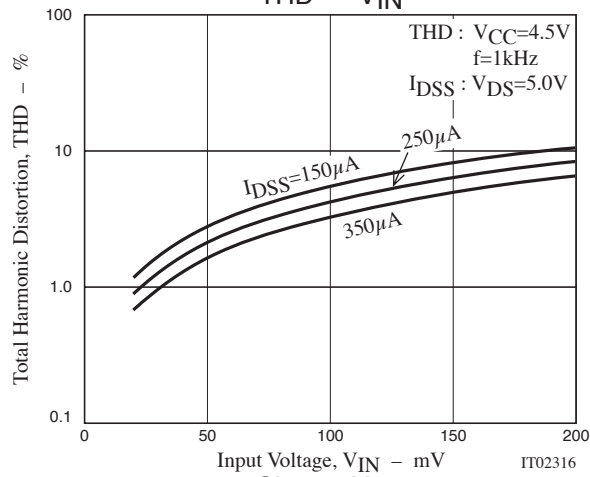
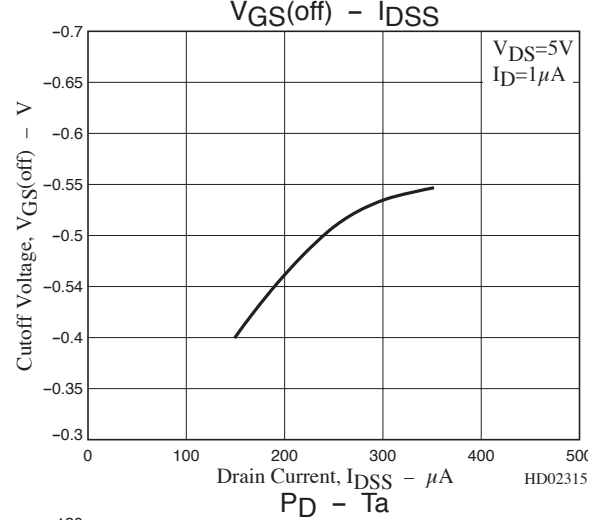
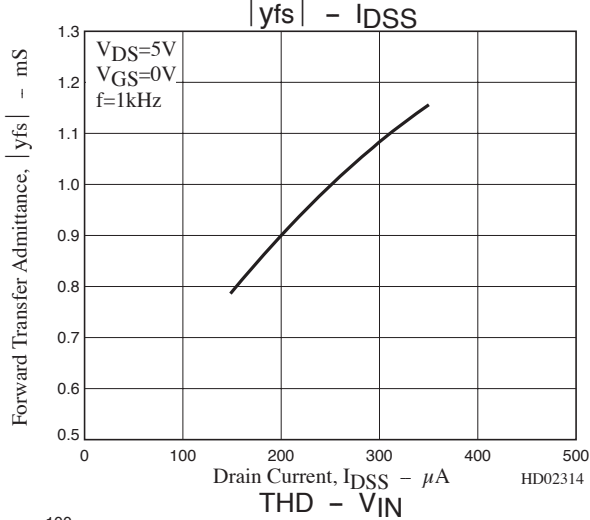
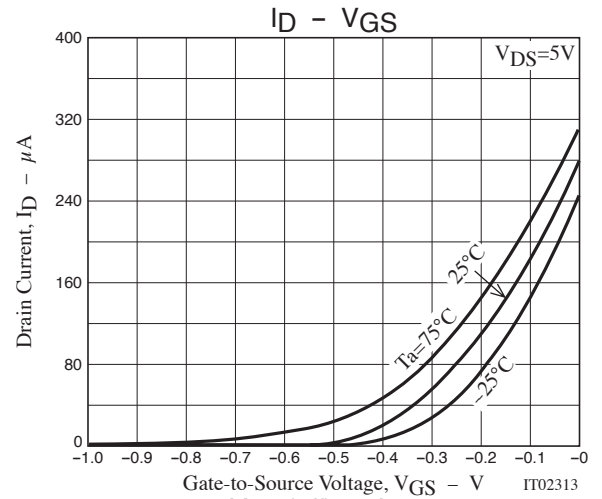
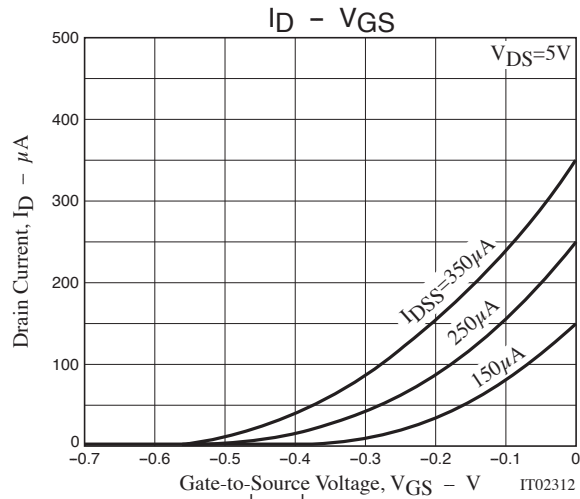
Reduced Voltage Characteristic

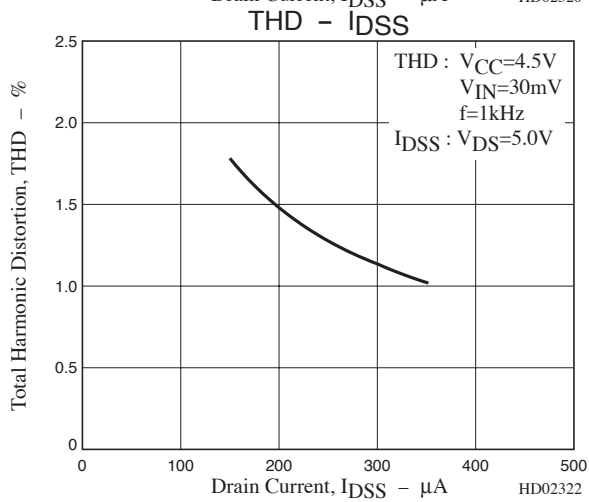
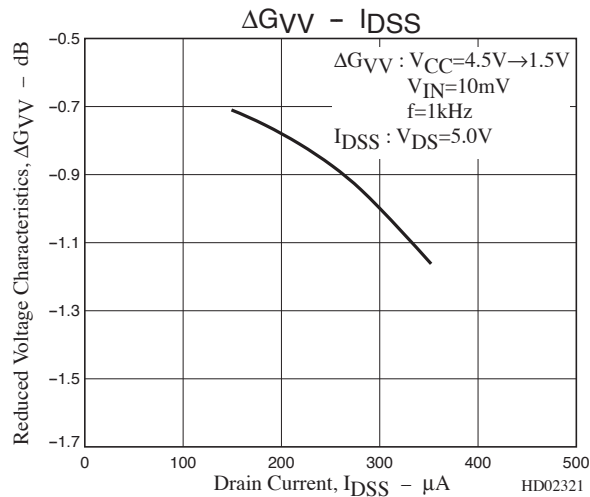
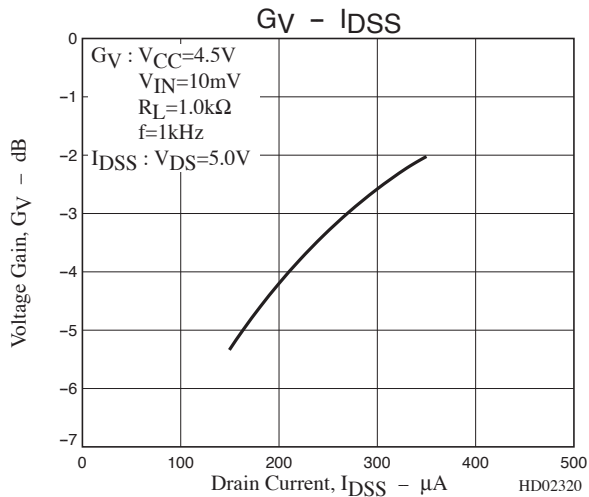


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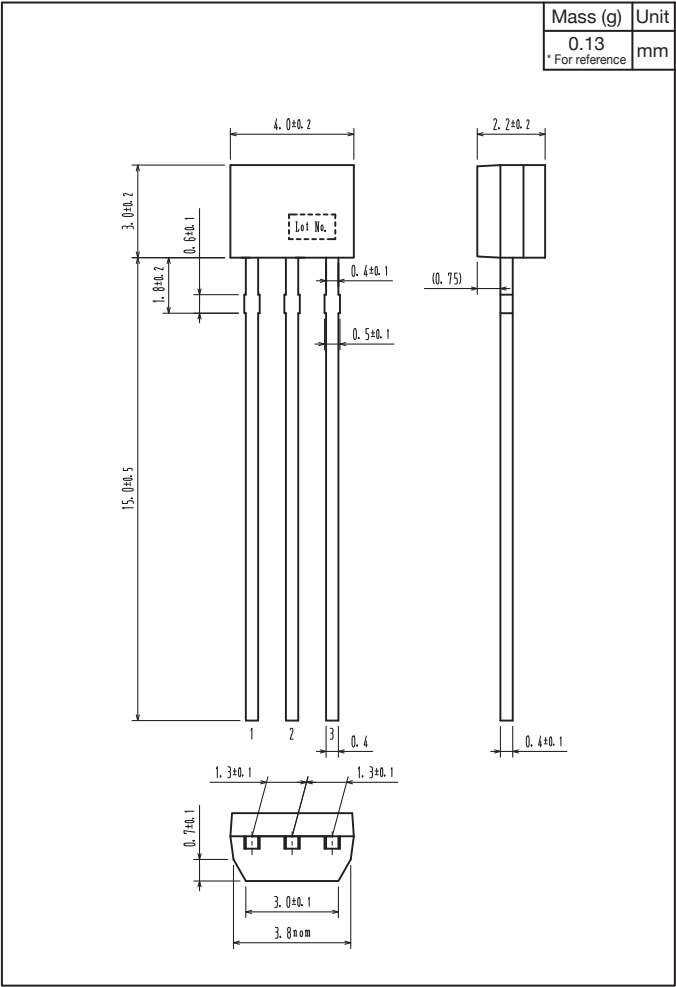
Device	Package	Shipping	memo
2SK596S-B	SPA	500pcs./bag	Pb-Free
2SK596S-C	SPA	500pcs./bag	







Outline Drawing
2SK596S-B, 2SK596S-C



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