

SEMICONDUCTOR®

KSK596

Capacitor Microphone Applications

- Especially Suited for use in Audio, Telephone Capacitor Microphones
- Excellent Voltage Characteristic
- Excellent Transient Characteristic



1.Source 2. Gate 3. Drain

Si N-channel Junction FET

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units	
V _{GDO}	Gate-Drain Voltage	-20	V	
I _G	Gate Current	10	mA	
I _D	Drain Current	1	mA	
P _D	Power Dissipation	100	mW	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

Electrical Characteristics Ta=25°C unless otherwise noted

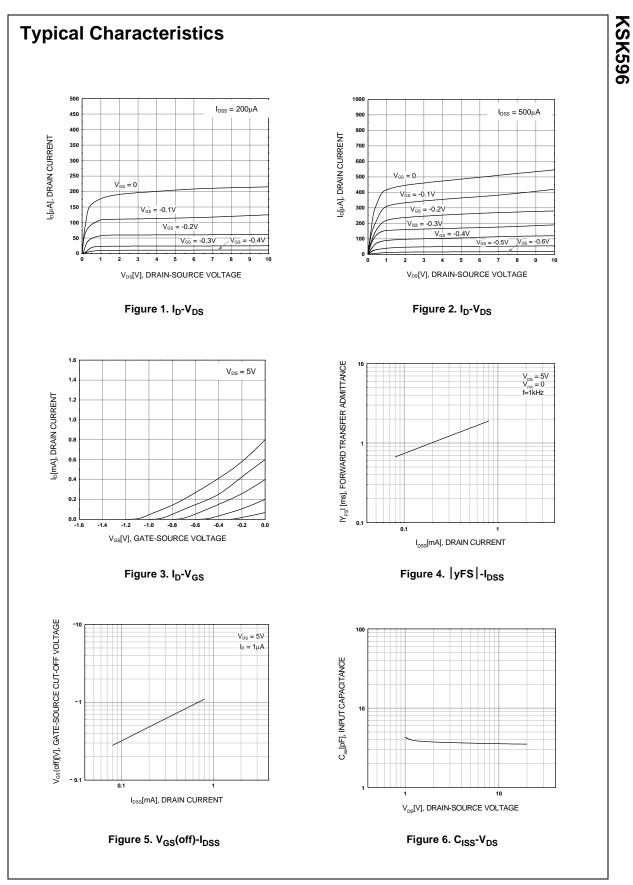
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{GDO}	Gate-Drain Breakdown Voltage	I _G = -100uA	-20			V
V _{GS} (off)	Gate-Source Cut-off Voltage	V _{DS} =5V, Ι _D =1μΑ		-0.6	-1.5	V
I _{DSS}	Drain Current	V _{DS} =5V, V _{GS} =0	100		350	μΑ
IY _{FS} I	Forward Transfer Admittance	V _{DS} =5V, V _{GS} =0, f=1MHz	0.4	1.2		ms
C _{iss}	Input Capacitance	V _{DS} =5V, V _{GS} =0, f=1MHz		3.5		pF
C _{rss}	Output Capacitance	V _{DS} =5V, V _{GS} =0, f=1MHz		0.65		pF

I_{DSS} Classification

Classification	А	В	С	
I _{DSS} (μA)	100 ~ 170	150 ~ 240	210 ~ 350	

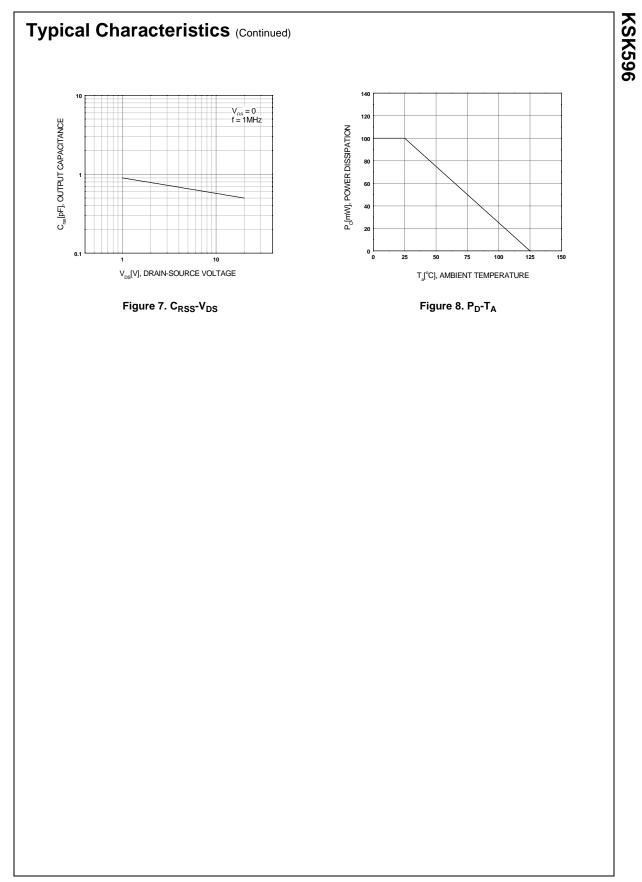
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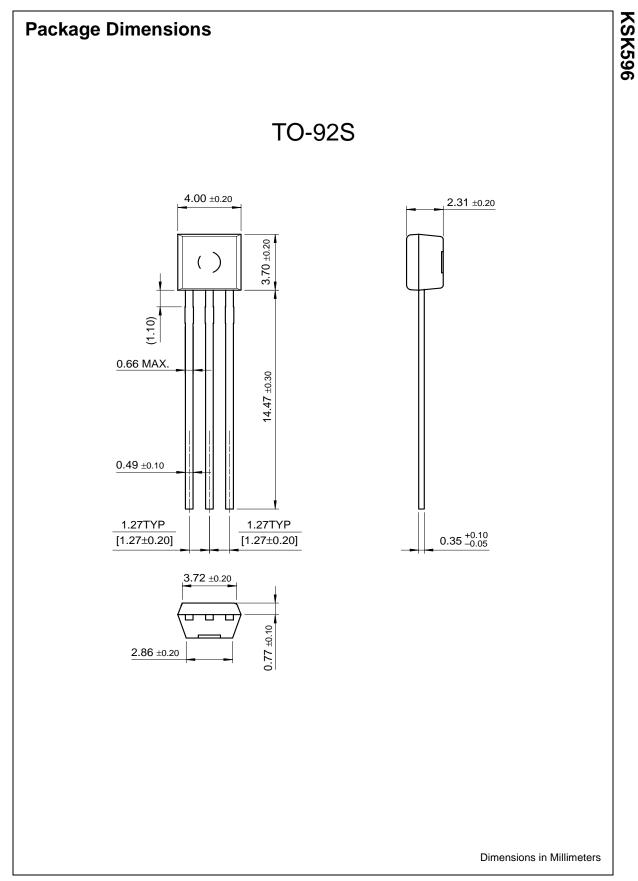
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