

KSK596

Capacitor Microphone Applications

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



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
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a=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, I_D =1 μ A		-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	

Typical Characteristics

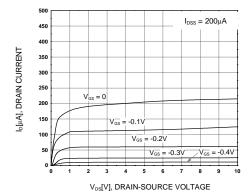


Figure 1. I_D - V_{DS}

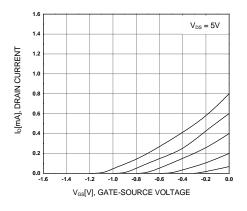


Figure 3. I_D-V_{GS}

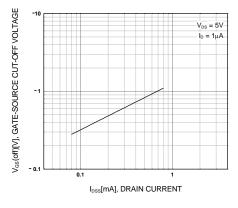


Figure 5. V_{GS}(off)-I_{DSS}

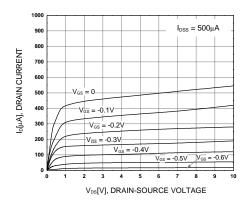


Figure 2. I_D - V_{DS}

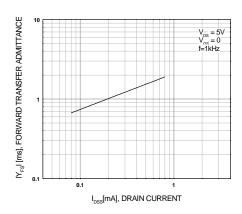


Figure 4. |yFS|-I_{DSS}

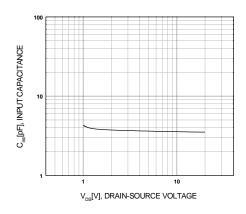


Figure 6. C_{ISS} - V_{DS}

Typical Characteristics (Continued)

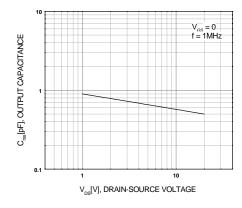


Figure 7. C_{RSS} - V_{DS}

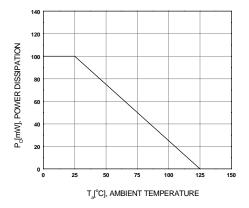
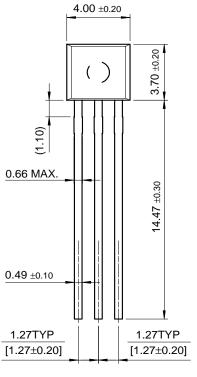
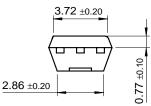


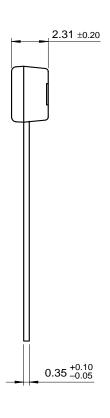
Figure 8. P_D-T_A

Package Dimensions

TO-92S







Dimensions in Millimeters

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CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
DOME™	GlobalOptoisolator™	MICROWIRE™	QS^{TM}	SyncFET™
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