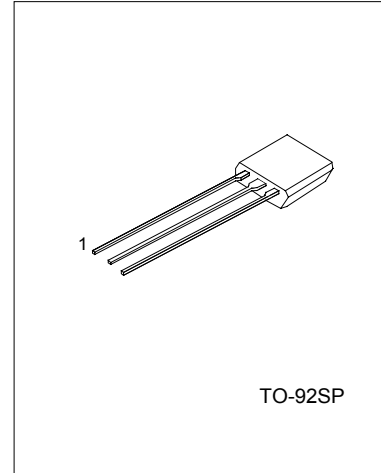


CAPACITOR MICROPHONE
APPLICATIONS

FEATURES

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



1:SOURCE 2:GATE 3. DRAIN

ABSOLUTE MAXIMUM RATINGS (Ta=25°C ,unless otherwise specified)

PARAMETER	SYMBOL	RATING	UNIT
Gate Drain Voltage	V_{GDO}	-20	V
Gate Current	I_G	10	mA
Drain Current	I_D	1	mA
Power Dissipation	P_D	100	mW
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55~+125	°C

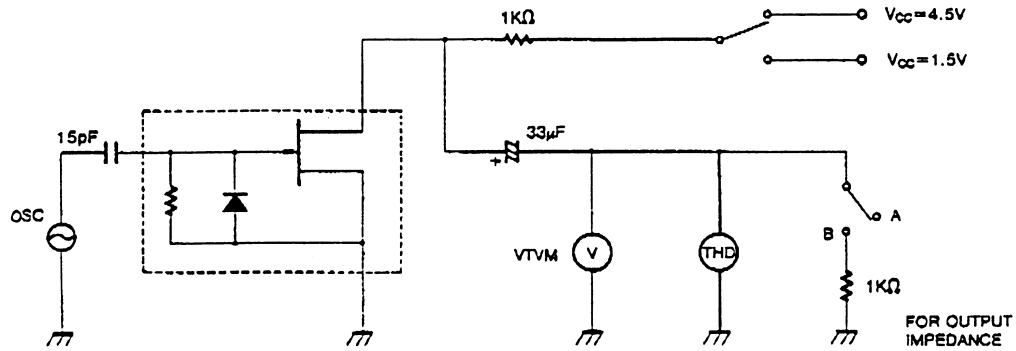
ELECTRICAL CHARACTERISTICS(Ta=25°C,unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Gate Drain Breakdown Voltage	BV_{GDO}	$I_G = -100\mu A$	-20			V
Gate Source Cut off Voltage	$V_{GS(off)}$	$V_{DS}=5V, I_D=1\mu A$		-0.6	-1.5	V
Drain Current	I_{DSS}	$V_{DS}=5V, V_{GS}=0$	100		800	μA
Forward Transfer Admittance	Y_{FS}	$V_{DS}=5V, V_{GS}=0, f=1KHz$	0.4	1.2		mS
Input Capacitance	C_{ISS}	$V_{DS}=5V, V_{GS}=0, f=1MHz$		3.5		pF
Output Capacitance	C_{RSS}	$V_{DS}=5V, V_{GS}=0, f=1MHz$		0.65		pF

CLASSIFICATION OF I_{DSS}

RANK	A	B	C	D	E
$I_{DSS} (\mu A)$	100-170	150-240	210-350	320-480	440-800

TEST CIRCUIT(Ta=25°C)



PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Voltage Gain	Gv	V _{IN} =10mV, f=1KHz		-3		dB
Reduced Voltage Characteristic	ΔGvV	V _{IN} =10mV, f=1KHz, V _{CC} =4.5V→1.5V		-1.2	-3.5	dB
Frequency Characteristic	ΔGvF	f=1KHz to 110Hz			-1	dB
Input Resistance	Z _{in}	f=1KHz	25			MΩ
Output Resistance	Z _o	f=1KHz			700	Ω
Total Harmonic distortion	THD	V _{IN} =30mV, f=1KHz		1		%
Output Noise Voltage	V _{NO}	V _{IN} =0, A CURVE			-110	dB