



No. C933B



2SK334

Silicon N-Channel Junction-Type Field Effect TR
FOR CONDENSER MICROPHONES

FEATURE

* Because it has an ultra-compact outline, sets can be made compact.

ABSOLUTE MAXIMUM RATINGS/ $T_a = 25^\circ\text{C}$		unit	
Drain-gate current	V_{DG0}	-20	V
Gate current	I_G	10	mA
Allowable power dissipation	P_D	100	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage ambient temperature	T_{stg}	-40 ~ +125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS/ $T_a = 25^\circ\text{C}$		min	typ	max	unit
Drain current	I_{DSS}^* $V_{DS} = 10\text{ V}, V_{GS} = 0\text{ V}$	60*		800*	μA

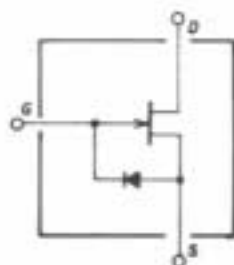
[$T_a = 25^\circ\text{C}, V_{CC} = 4.5\text{ V}, R_D = 680\ \Omega, C_{in} = 15\text{ pF}$, in a specified test circuit (conforming with application circuit)].

			min	typ	max	unit
Transmission loss	G_v			-5		dB
Transmission loss voltage-drop characteristics	ΔG_{vV} $V_{CC} = 4.5 \sim 1.5\text{ V}, f = 1\text{ kHz}$ $v_i = 10\text{ mV}$				-3	dB
Transmission loss frequency characteristics	ΔG_{vf} $f = 1\text{ k} \sim 110\text{ Hz}, v_i = 10\text{ mV}$				-1	dB
Input impedance	z_i $f = 1\text{ kHz}$	20				$\text{M}\Omega$
Output noise voltage	V_{NO} $v_i = 0, \text{A-curve}$				-110	dB

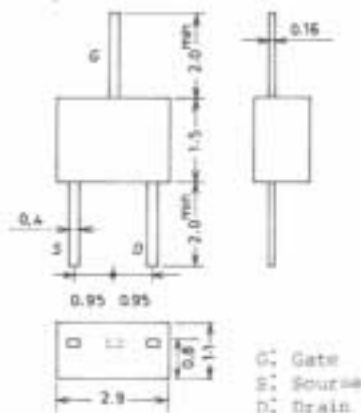
* 2SK334 is graded as follows by drain current I_{DSS} : (unit: μA)

60	N11	180	150	N12	300	250	N13	450	400	N14	800
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Equivalent circuit



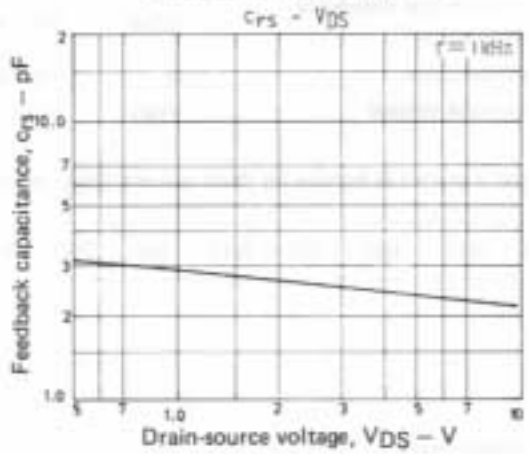
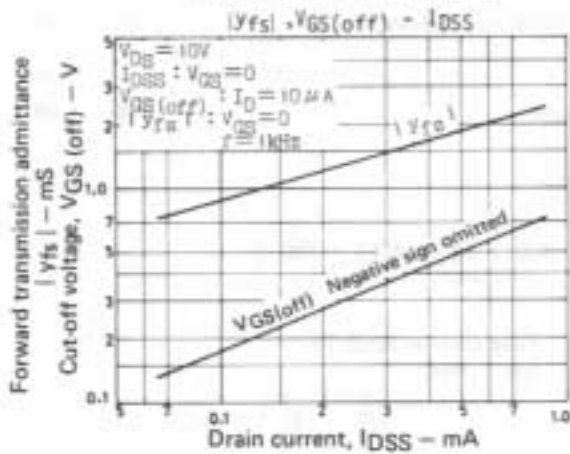
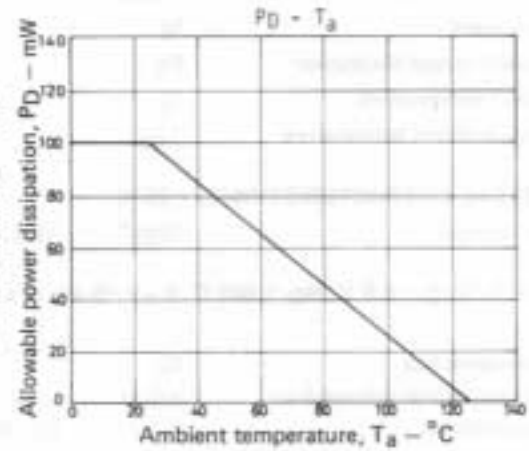
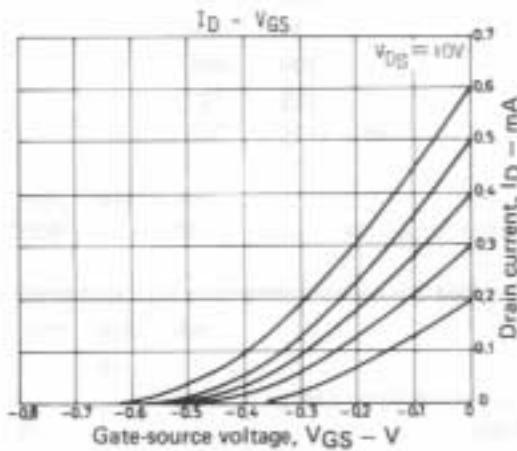
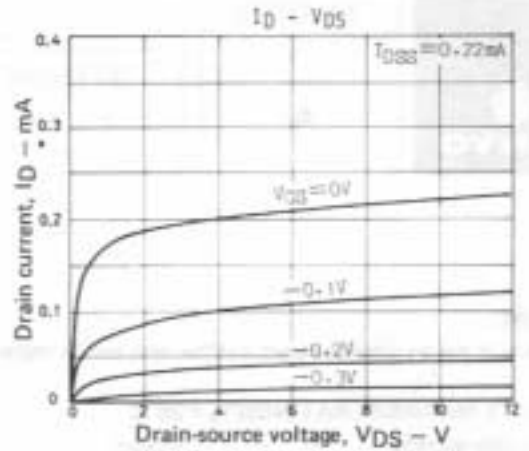
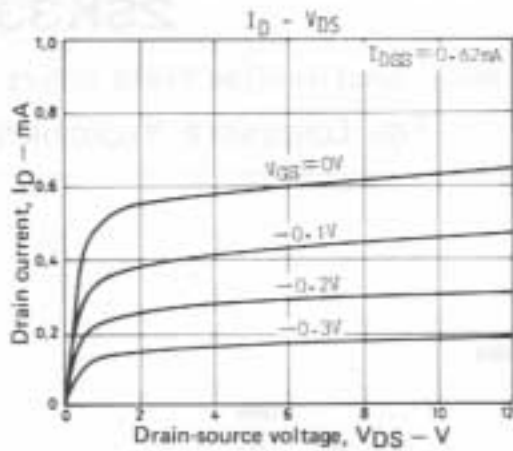
Case Outline 2025-TR
(unit: mm)



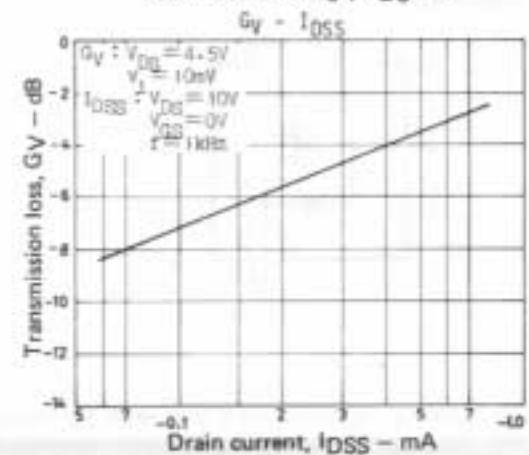
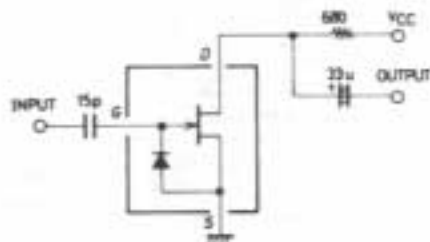
G: Gate
S: Source
D: Drain

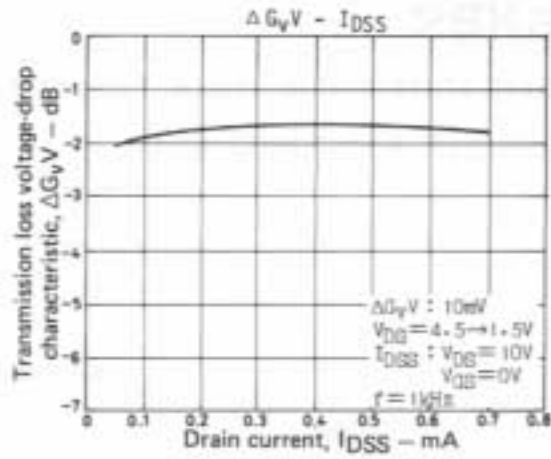
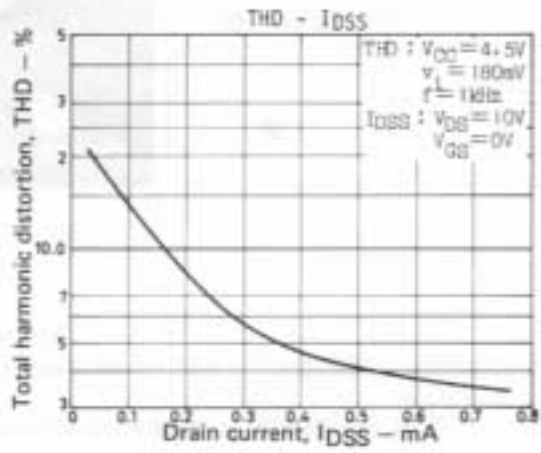
These specifications are subject to change without notice.

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Sample application circuit: 2-wire system





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