



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_{DGO} | -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 |

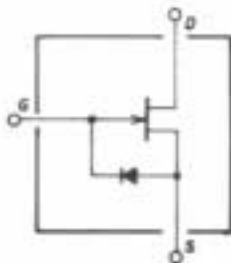
[$T_a = 25^\circ\text{C}, V_{CC} = 4.5\text{ V}, R_D = 680\ \Omega, C_{in} = 15\text{ pF}$, in a specified test circuit (conforming with application circuit)].

| | | | min | typ | max | unit |
|--|----------------|--|-----|-----|------|------------------|
| Transmission loss | G_V | | | -5 | | dB |
| Transmission loss voltage-drop characteristics | $\Delta G_V V$ | $V_{CC} = 4.5 \sim 1.5\text{ V}, f = 1\text{ kHz}$ $v_i = 10\text{ mV}$ | | | -3 | dB |
| Transmission loss frequency characteristics | $\Delta G_V f$ | $f = 1\text{ k} \sim 110\text{ Hz}, v_i = 10\text{ mV}$ | | | -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 |

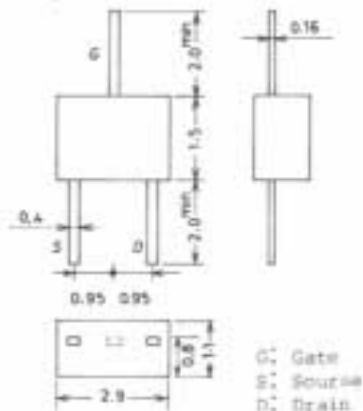
* 2SK334 is graded as follows by drain current I_{DSS} : (unit: mm)

| | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 60 | N11 | 180 | 150 | N12 | 300 | 250 | N13 | 450 | 400 | N14 | 800 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

Equivalent circuit

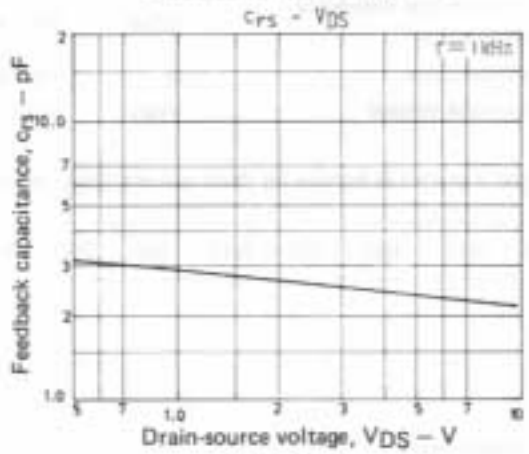
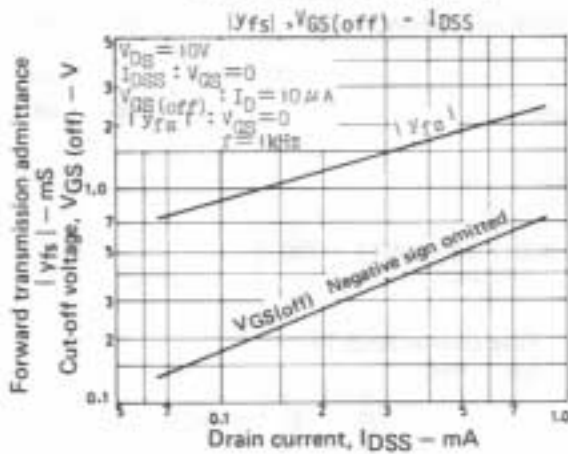
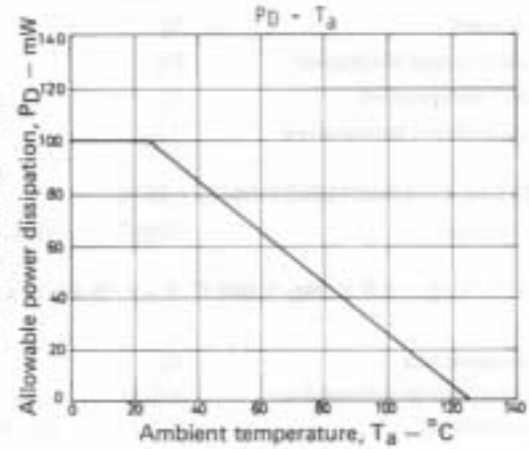
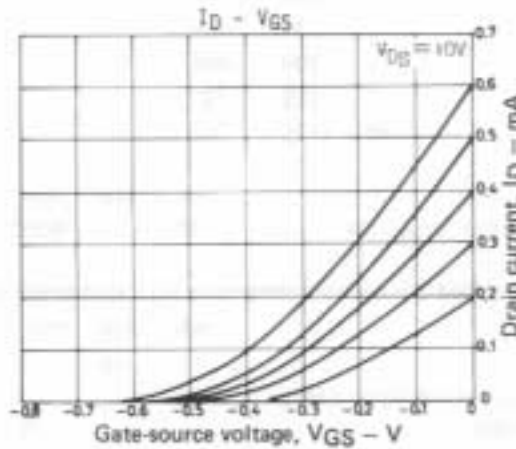
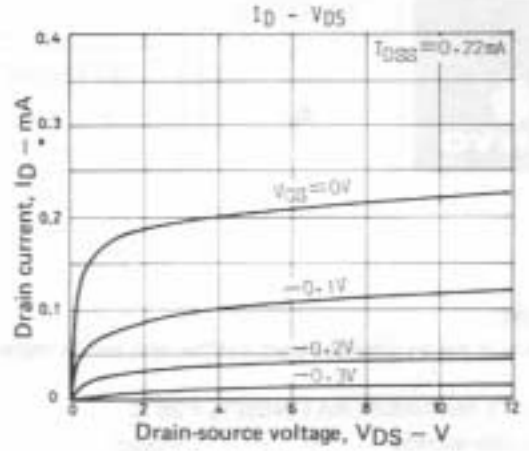
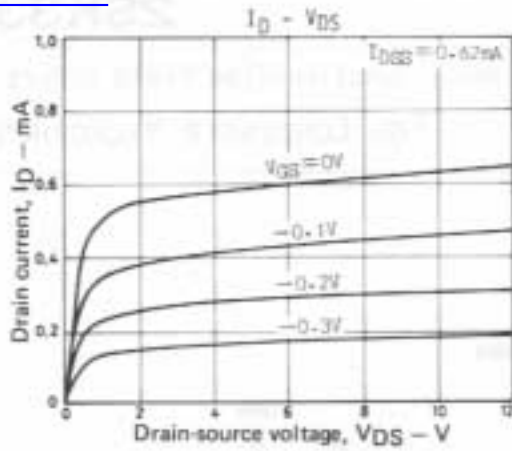


Case Outline 2025-TR (unit: mm)

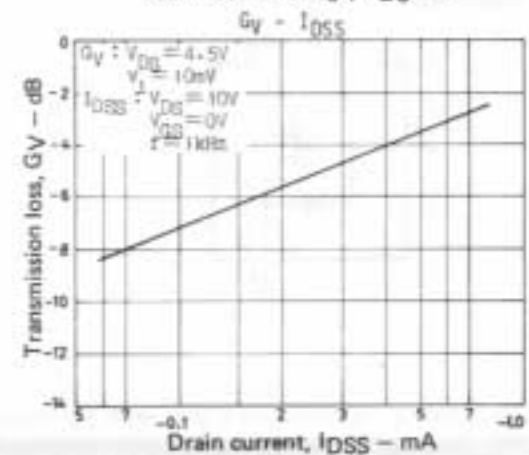
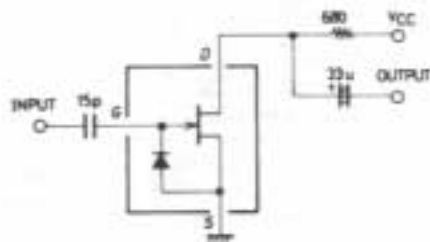


These specifications are subject to change without notice.

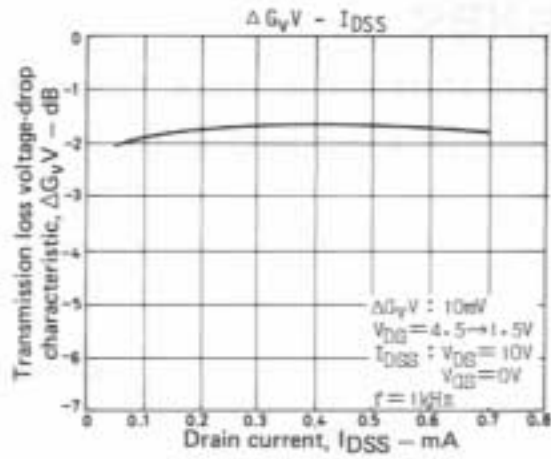
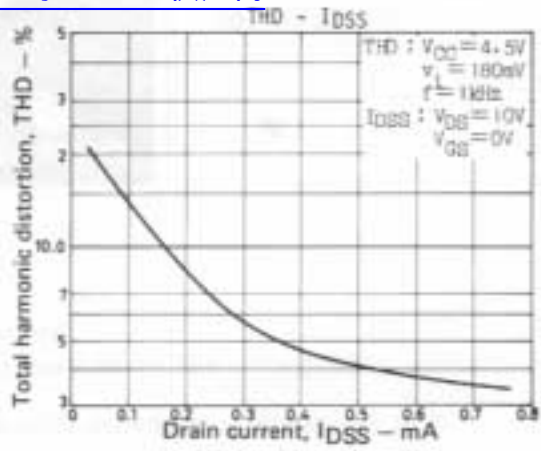
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Sample application circuit: 2-wire system



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