



EC3A03B

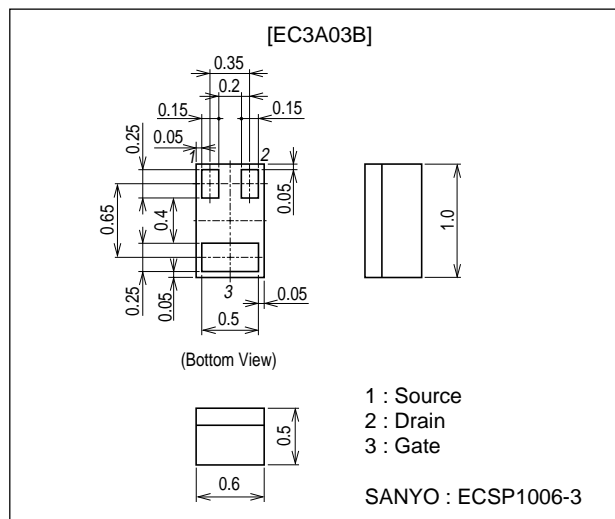
Impedance Converter, Infrared Sensor Applications

Features

- Small I_{GSS} .
- Small C_{iss} .
- Ultraminiature package facilitates miniaturization in end products.

Package Dimensions

unit : mm
2208



Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

| Parameter | Symbol | Conditions | Ratings | Unit |
|-----------------------------|-----------|------------|-------------|------------------|
| Drain-to-Source Voltage | V_{DSS} | | 40 | V |
| Gate-to-Drain Voltage | V_{GDS} | | -40 | V |
| Gate Current | I_G | | 10 | mA |
| Drain Current | I_D | | 1 | mA |
| Allowable Power Dissipation | P_D | | 100 | mW |
| Junction Temperature | T_J | | 150 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | | -55 to +150 | $^\circ\text{C}$ |

Electrical Characteristics at $T_a=25^\circ\text{C}$

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---------------------------------|---------------|--|---------|------|------|---------------|
| | | | min | typ | max | |
| Gate-to-Drain Breakdown Voltage | $V_{(BR)GDS}$ | $I_G=-10\mu\text{A}, V_{DS}=0$ | -40 | | | V |
| Gate-to-Source Leakage Current | I_{GSS} | $V_{GS}=-20\text{V}, V_{DS}=0$ | | | -500 | pA |
| Cutoff Voltage | $V_{GS(off)}$ | $V_{DS}=10\text{V}, I_D=1\mu\text{A}$ | | -1.5 | -4.0 | V |
| Zero-Gate Voltage Drain Current | I_{DSS} | $V_{DS}=10\text{V}, V_{GS}=0$ | 50 | | 130 | μA |
| Forward Transfer Admittance | $ y_{fs} $ | $V_{DS}=10\text{V}, V_{GS}=0, f=1\text{kHz}$ | 0.05 | 0.13 | | mS |
| Input Capacitance | C_{iss} | $V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$ | | 1.7 | | pF |
| Reverse Transfer Capacitance | C_{rss} | $V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$ | | 0.7 | | pF |

Marking : JV

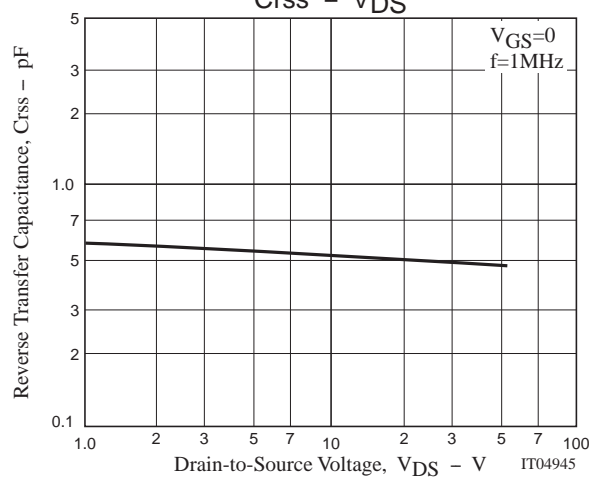
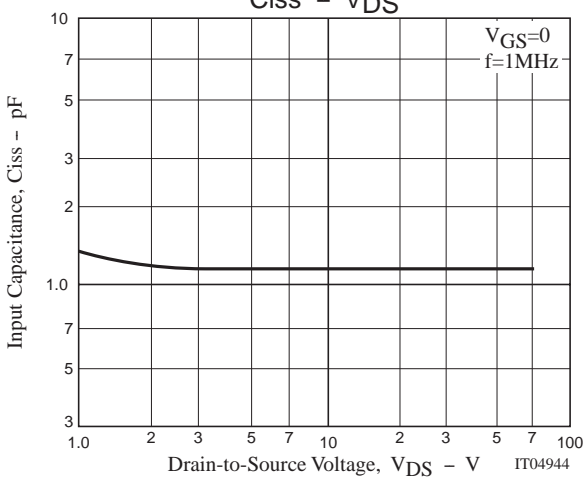
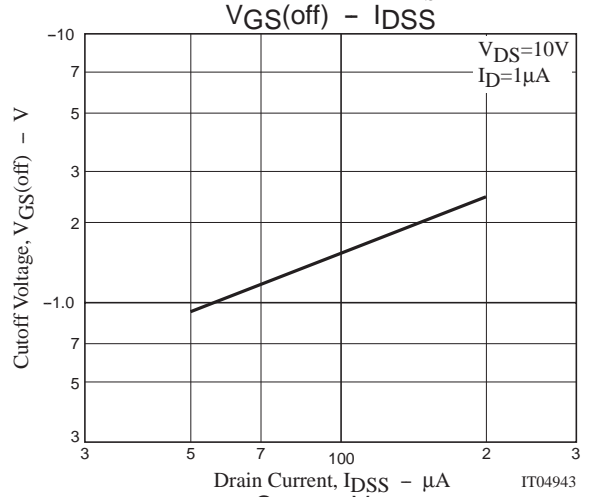
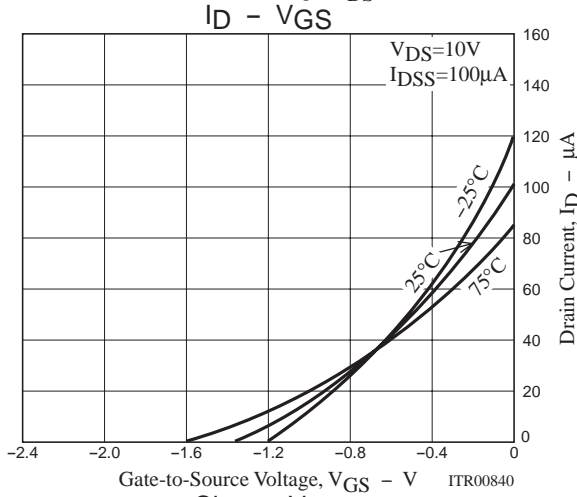
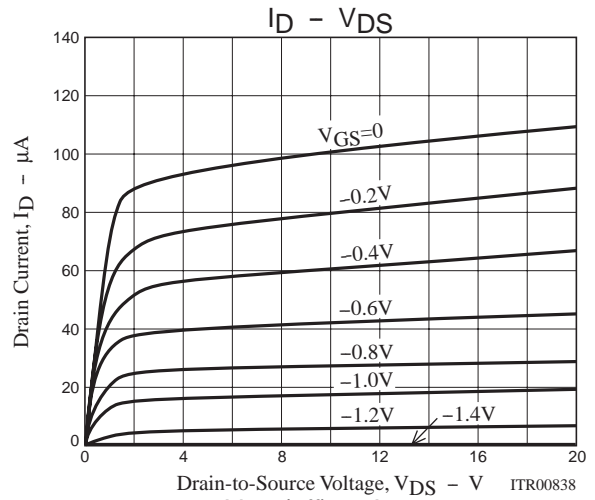
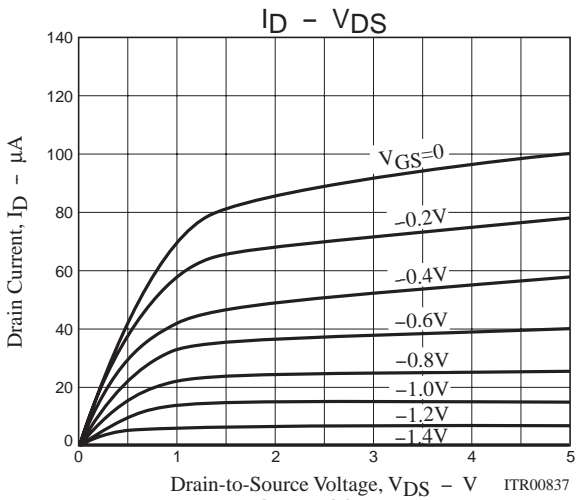
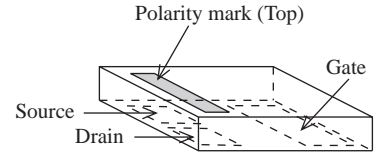
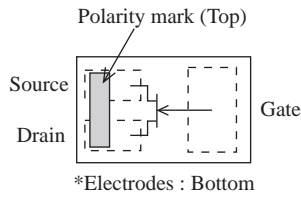
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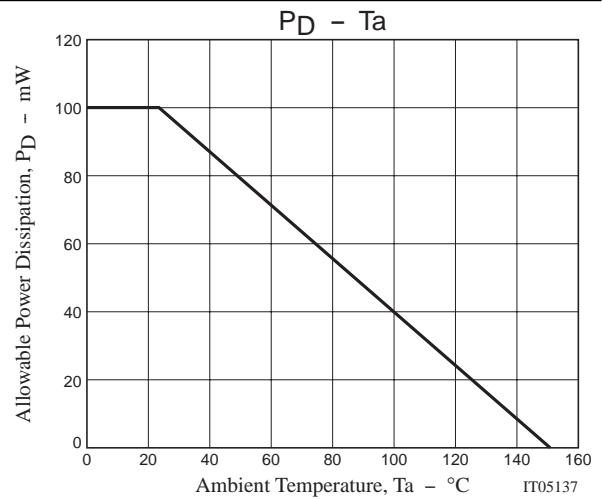
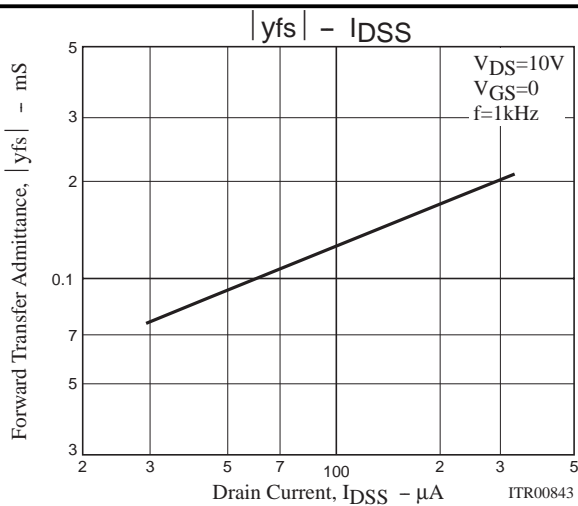
Type No. Indication (Top view)



Electrical Connection (Top view)



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