

Impedance Converter, Infrared Sensor Applications

An ON Semiconductor Company

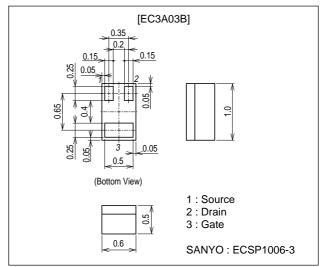
Preliminary

Features

- · Small IGSS.
- · Small Ciss.
- Ultraminiature package facilitates miniaturization in end products.

Package Dimensions

unit : mm 2208



Specifications

Absolute Maximum Ratings at Ta=25°C

| Parameter | Symbol | Conditions | Ratings | Unit |
|-----------------------------|------------------|------------|-------------|------|
| Drain-to-Source Voltage | VDSS | | 40 | V |
| Gate-to-Drain Voltage | V _{GDS} | | -40 | V |
| Gate Current | IG | | 10 | mA |
| Drain Current | ID | | 1 | mA |
| Allowable Power Dissipation | PD | | 100 | mW |
| Junction Temperature | Tj | | 150 | °C |
| Storage Temperature | Tstg | | -55 to +150 | °C |

Electrical Characteristics at Ta=25°C

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---------------------------------|----------|--|---------|------|------|-------|
| | | | min | typ | max | Offic |
| Gate-to-Drain Breakdown Voltage | V(BR)GDS | I _G =-10μA, V _{DS} =0 | -40 | | | V |
| Gate-to-Source Leakage Current | IGSS | V _{GS} =-20V, V _{DS} =0 | | | -500 | pA |
| Cutoff Voltage | VGS(off) | V _{DS} =10V, I _D =1μA | | -1.5 | -4.0 | V |
| Zero-Gate Voltage Drain Current | IDSS | V _{DS} =10V, V _{GS} =0 | 50 | | 130 | μΑ |
| Forward Transfer Admittance | yfs | V _{DS} =10V, V _{GS} =0, f=1kHz | 0.05 | 0.13 | | mS |
| Input Capacitance | Ciss | V _{DS} =10V, V _{GS} =0, f=1MHz | · | 1.7 | | pF |
| Reverse Transfer Capacitance | Crss | V _{DS} =10V, V _{GS} =0, f=1MHz | | 0.7 | | pF |

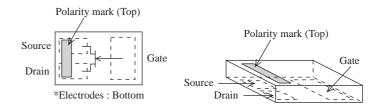
Marking: JV

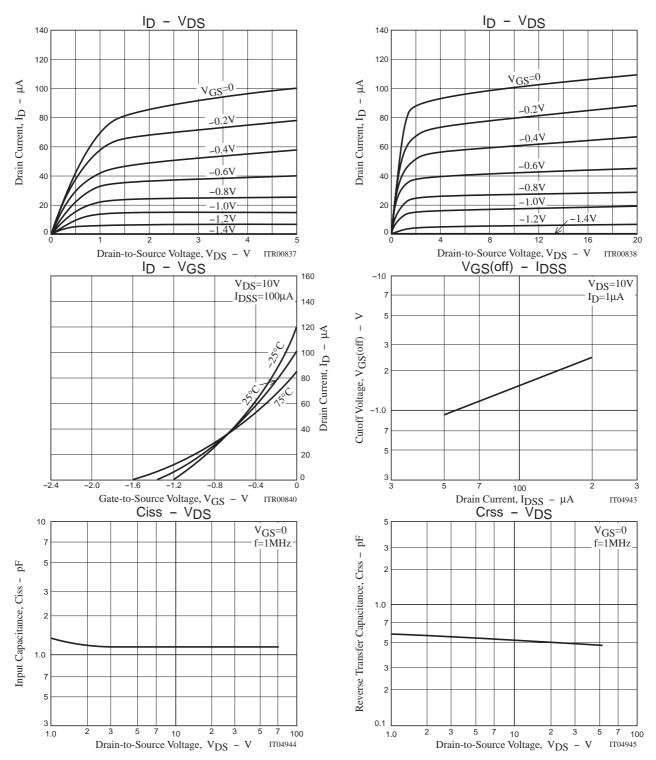
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Type No. Indication (Top view)

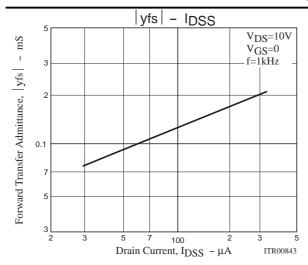
Electrical Connection (Top view)

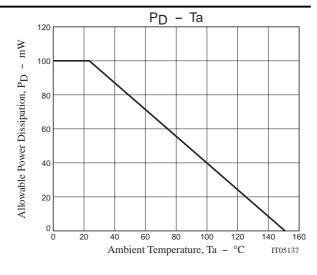






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