

EC3A03B

Impedance Converter, Infrared Sensor Applications

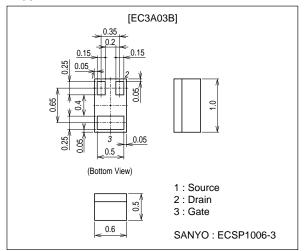
An ON Semiconductor Company

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	VGDS		-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	VGS=-20V, VDS=0			-500	pА
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

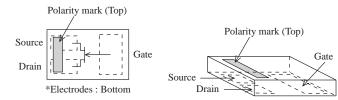
Marking : JV

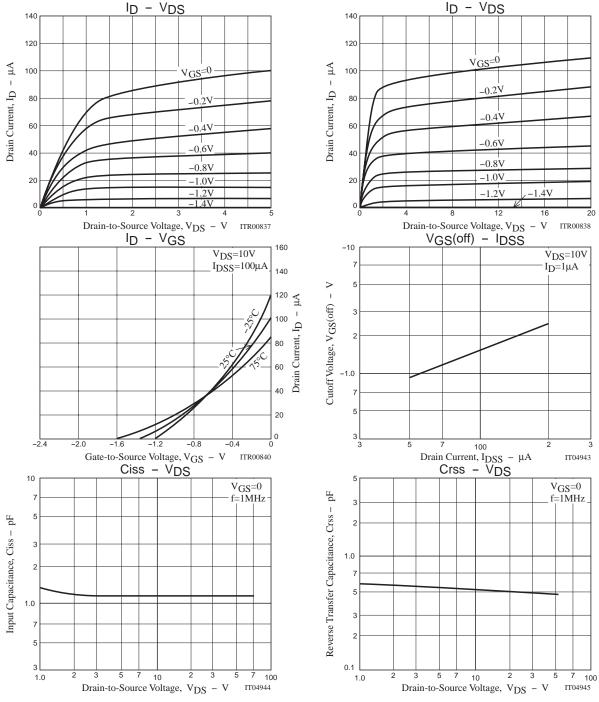
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Type No. Indication (Top view)

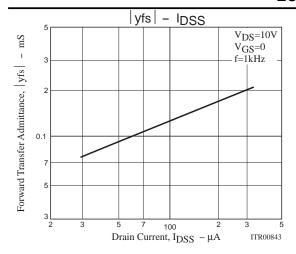
Electrical Connection (Top view)

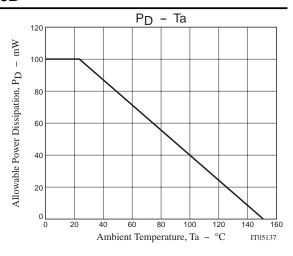






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