N-Channel Silicon Junction FET

EC3A03B

Impedance Converter, Infrared Sensor Applications

An ON Semiconductor Company

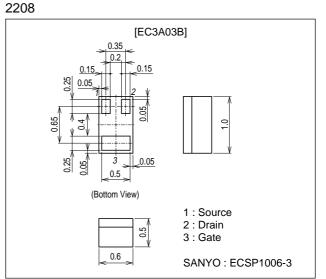
Package Dimensions

unit : mm



Features

• Ultraminiature package facilitates miniaturization in end products.



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	۱ _D		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	Unit
Gate-to-Drain Breakdown Voltage	V(BR)GDS	IG=-10μA, V _{DS} =0	-40			V
Gate-to-Source Leakage Current	IGSS	V _{GS} =-20V, V _{DS} =0			-500	pА
Cutoff Voltage	VGS(off)	VDS=10V, ID=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	VDS=10V, VGS=0, f=1MHz		1.7		pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, V _{GS} =0, f=1MHz		0.7		pF

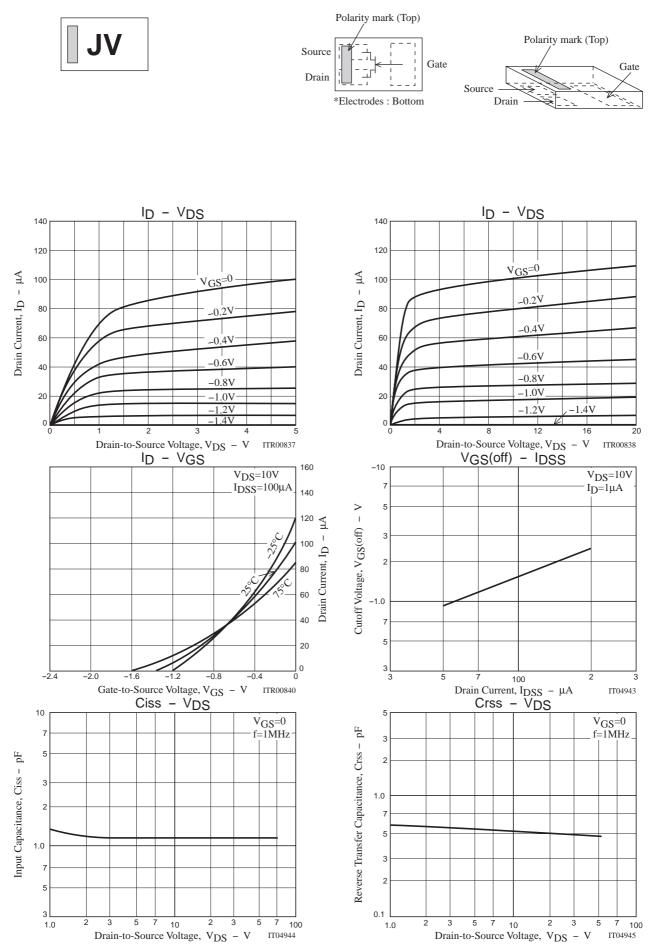
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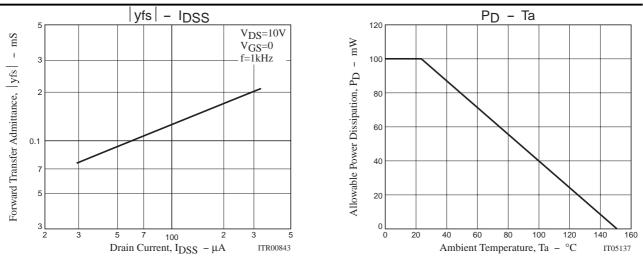
SANYO Electric Co., Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

Type No. Indication (Top view)

Electrical Connection (Top view)



No.7295-2/3



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