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sales@integrated-circuit.com

Ordering number : ENN7295A

N-Channel Silicon Junction FET



EC3A03B

**Impedance Converter,
Infrared Sensor Applications**

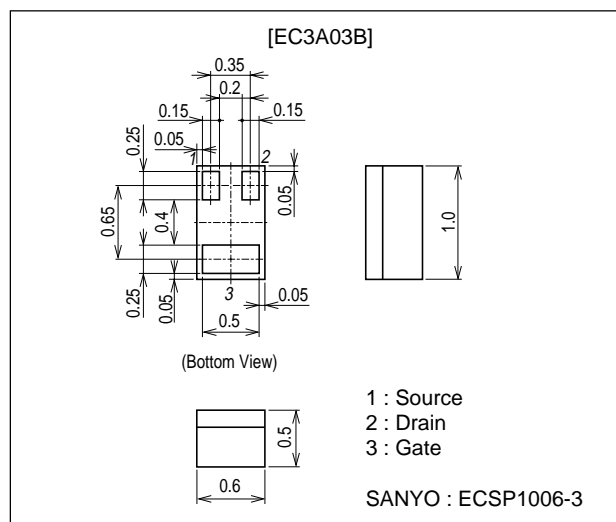
An ON Semiconductor Company

Features

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

Package Dimensions

unit : mm
2208



Specifications

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

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	PD		100	mW
Junction Temperature	T_j		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

Electrical Characteristics at $T_a=25^\circ C$

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

Marking : JV

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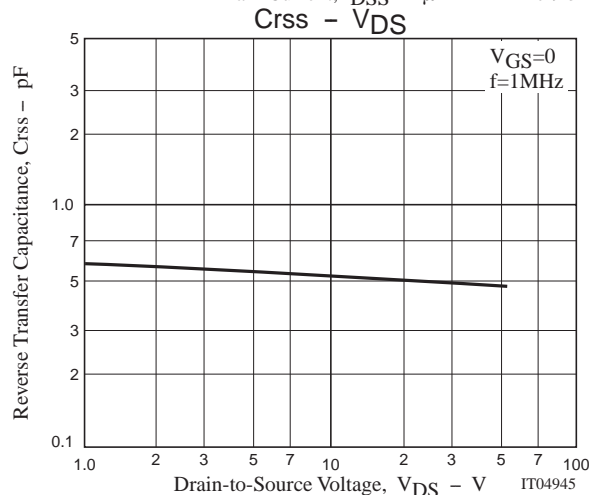
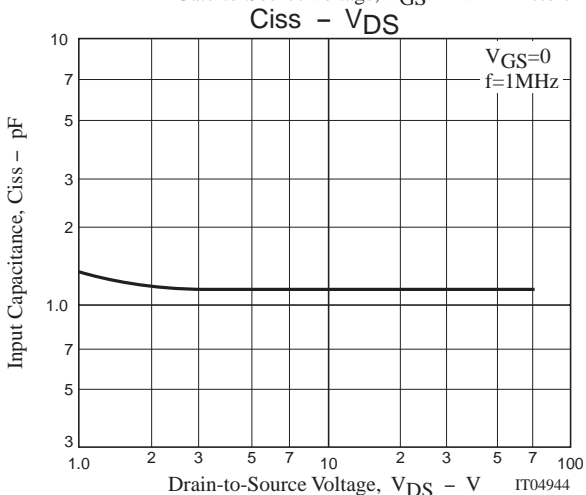
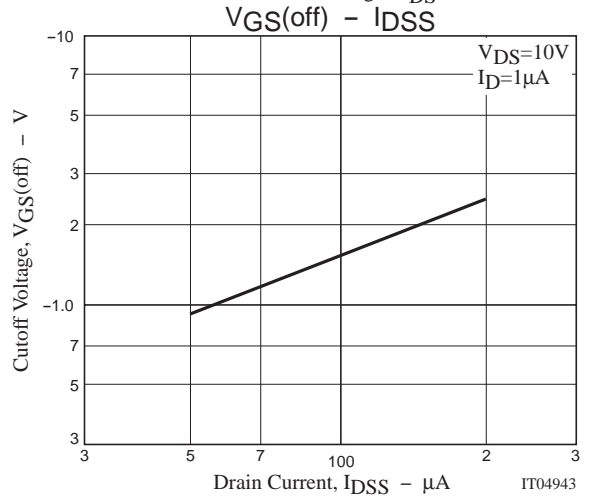
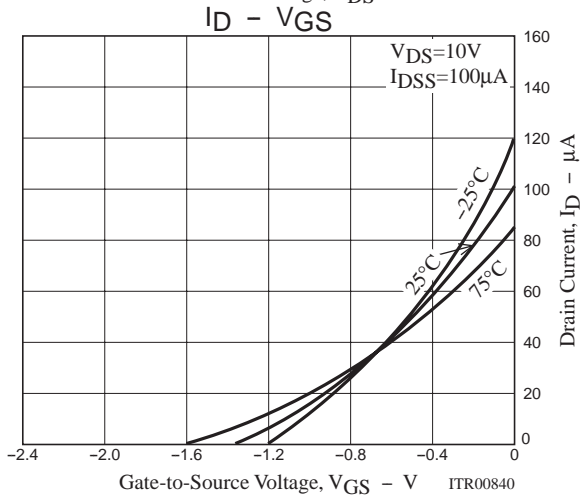
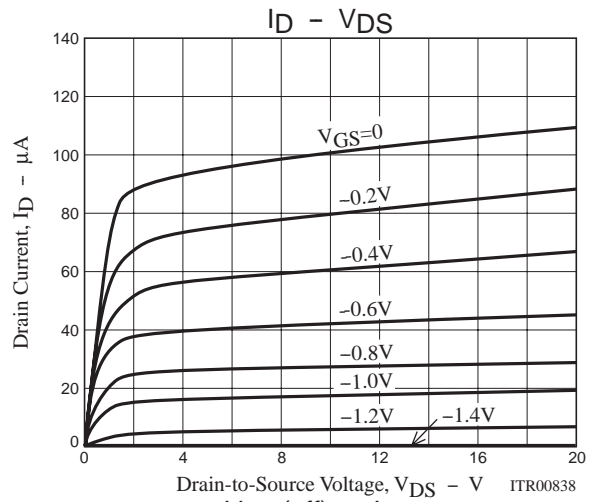
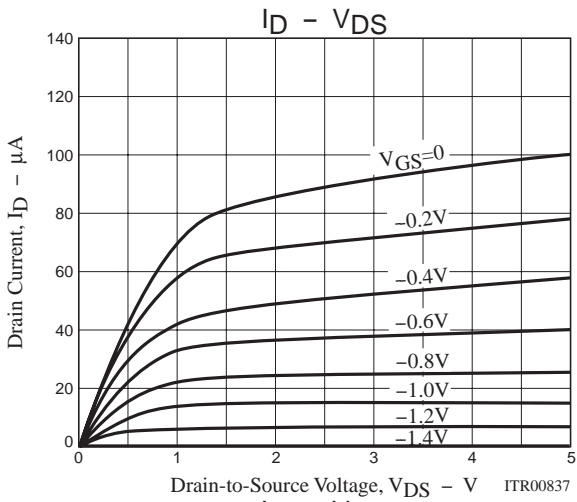
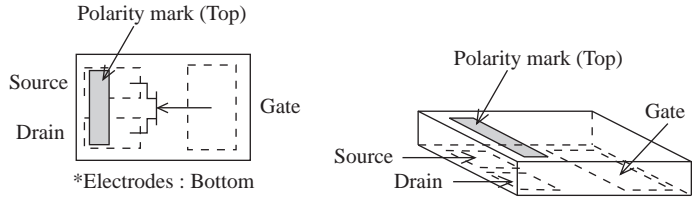
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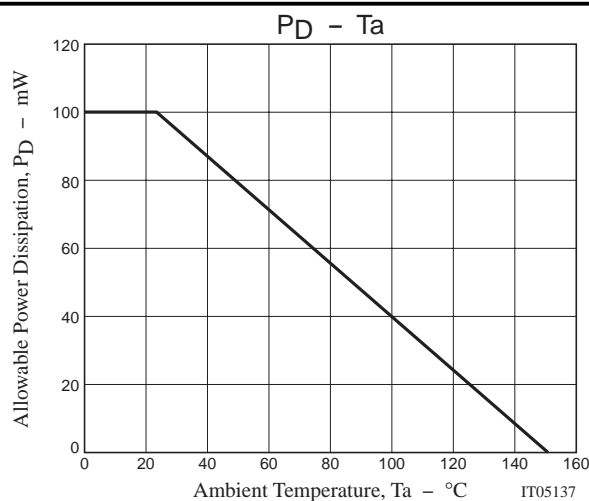
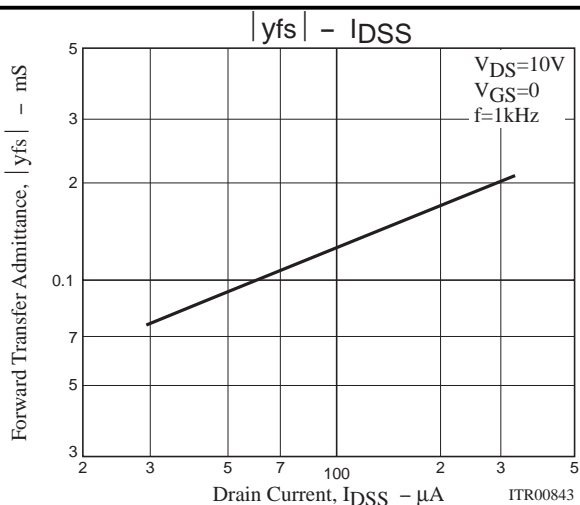
Type No. Indication (Top view)



Electrical Connection (Top view)



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