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Ordering number : ENN7671

N-Channel Junction Silicon FET

2SK3738

Impedance Converter Applications

Application

- Impedance conversion.
- Infrared sensor.

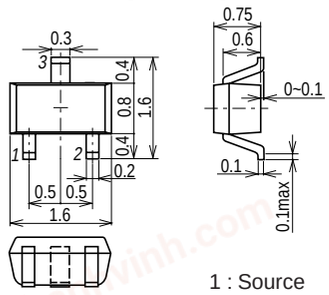
Features

- Small I_{GSS}.
- Small Ciss.
- Ultrasmall package permitting applied sets to be small and slim.

Package Dimensions

unit : mm

2124



1 : Source
2 : Drain
3 : Gate

SANYO : SMCP

Specifications

Absolute Maximum Ratings at Ta=25°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	Tj		150	°C
Storage Temperature	Tstg		−55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	I_G=-10μA, 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=1μA		−1.5	−2.3	V
Zero-Gate Voltage Drain Current	I_{DSS}	V_{DS}=10V, V_{GS}=0	50		130	μA
Forward Transfer Admittance	|yfs|	V_{DS}=10V, V_{GS}=0, f=1kHz	0.06	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

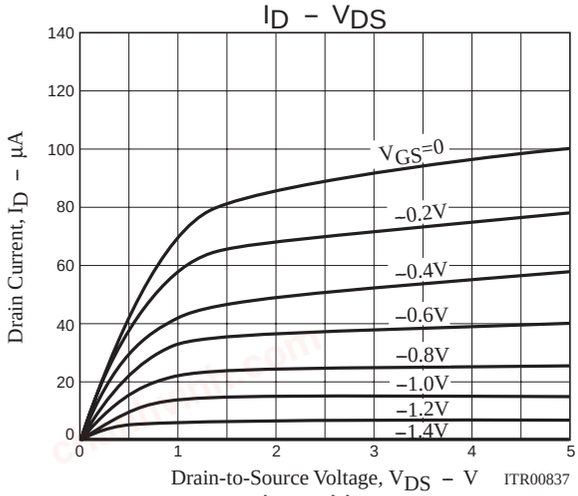
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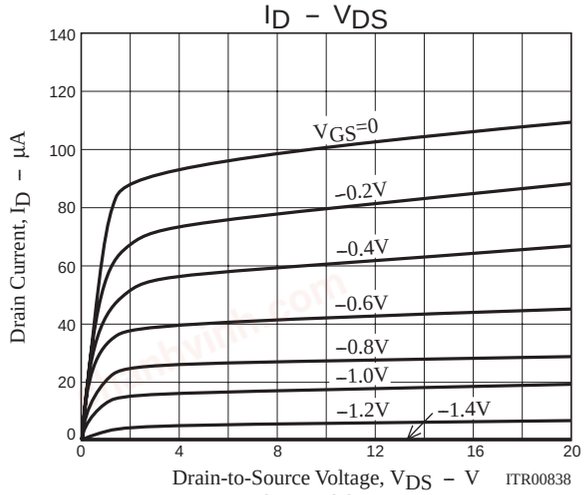
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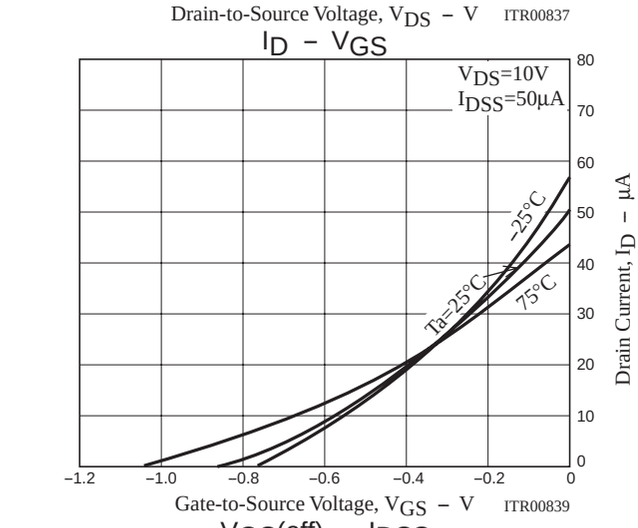
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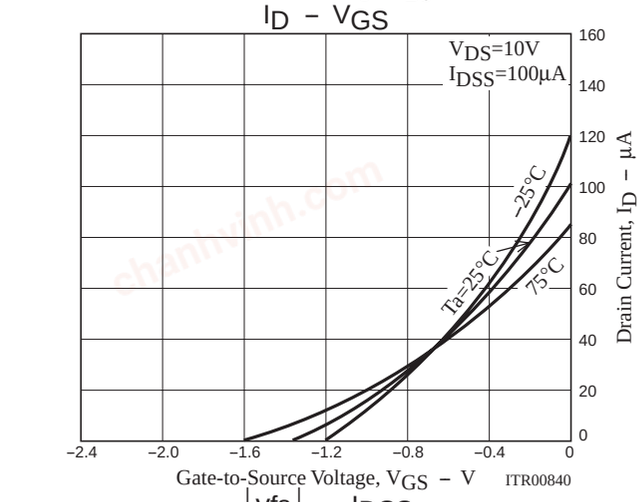
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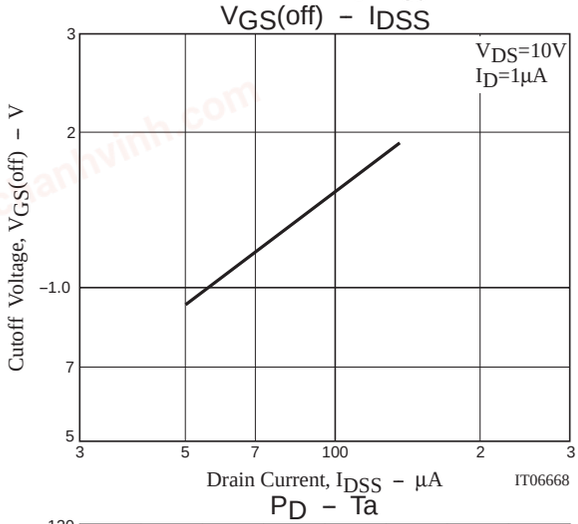
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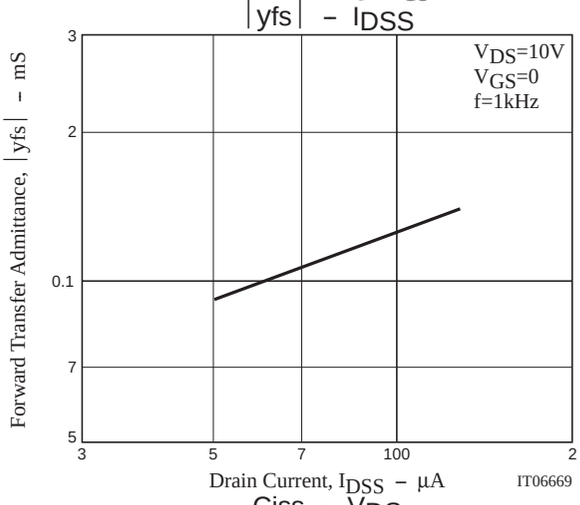


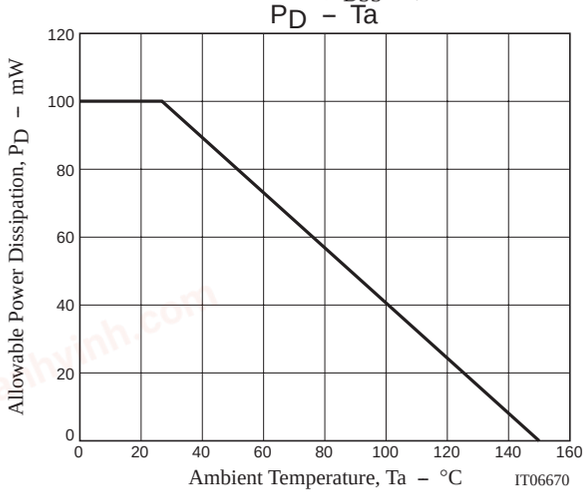


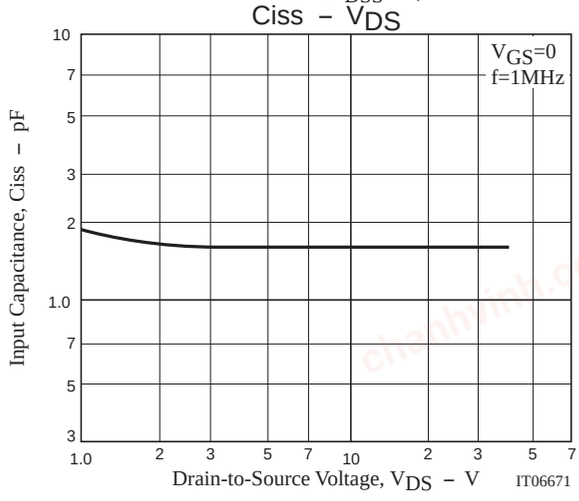




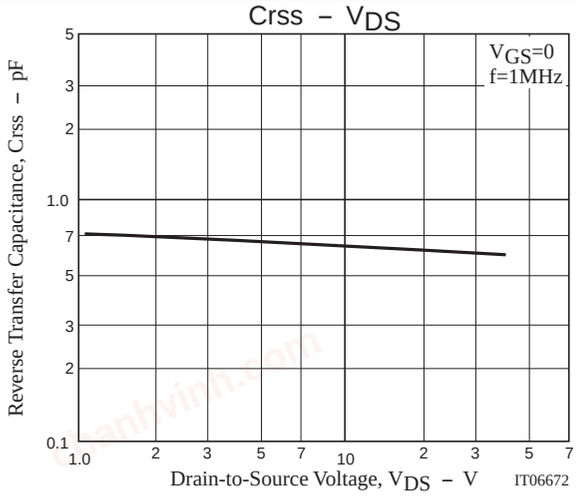








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