



Impedance Converter Applications

Application

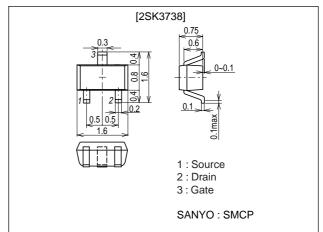
- · Impedance conversion.
- · Infrared sensor.

Features

- · Small IGSS.
- · Small Ciss.
- Ultrasmall package permitting applied sets to be small and slim.

Package Dimensions

unit : mm 2124



Specifications

Absolute Maximum Ratings at Ta=25°C

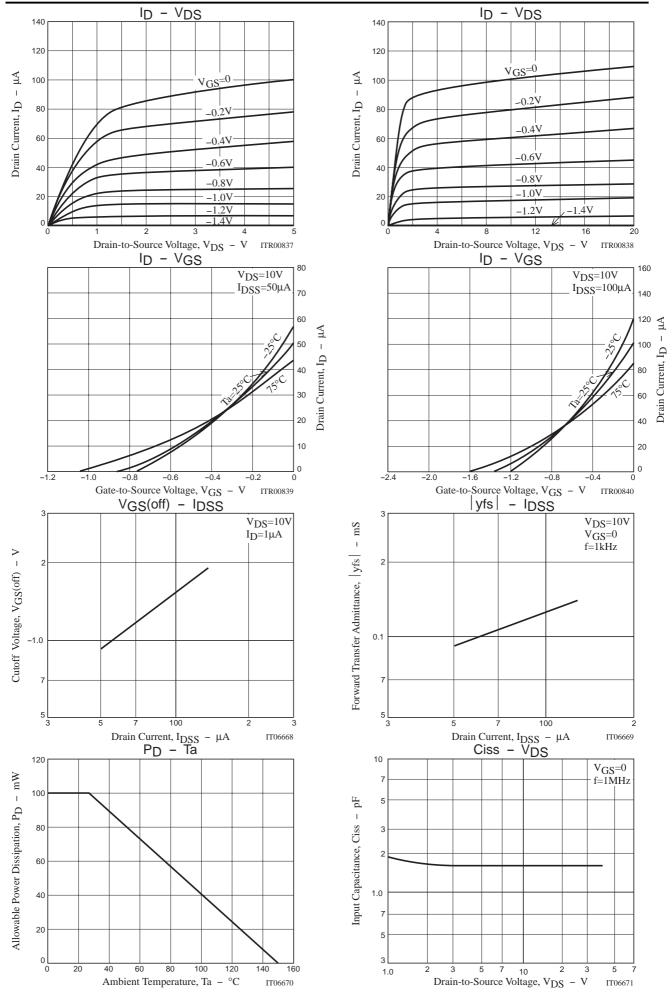
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSS}		40	V
Gate-to-Drain Voltage	V _{GDS}		-40	V
Gate Current	IG		10	mA
Drain Current	ΙD		1	mA
Allowable Power Dissipation	PD		100	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

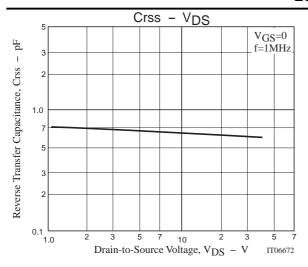
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Gate-to-Drain Breakdown Voltage	V(BR)GDS	IG=-10μA, VDS=0	-40			V
Gate-to-Source Leakage Current	IGSS	V _{GS} =-20V, V _{DS} =0			-500	pА
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D =1μA		-1.5	-2.3	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	0.06	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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