



Impedance Converter Applications

Applications

- · Impedance conversion.
- · Infrared sensor.

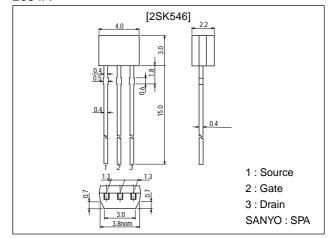
Features

- $\cdot \ Low \ I_{GSS}.$
- · Small Ciss.

Package Dimensions

unit:mm

2034A



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	I _D		1	mA
Allowable Power Dissipation	P _D		100	mW
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

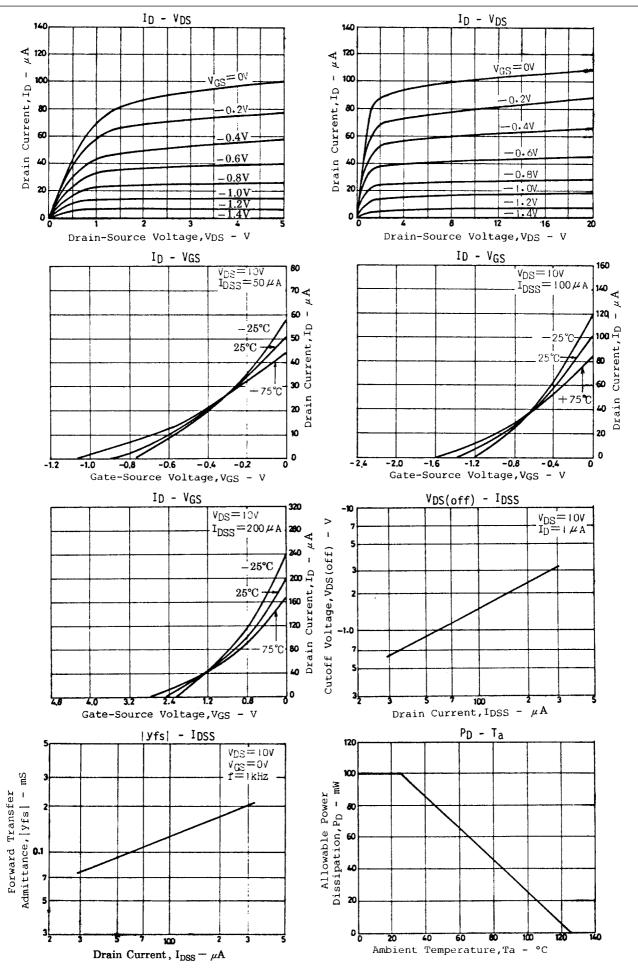
Electrical Characteristics at Ta = 25°C

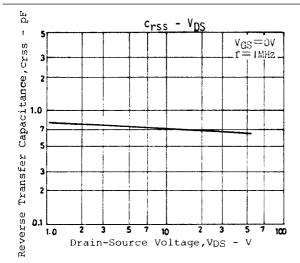
Parameter	Symbol	Conditions	Ratings			Unit
i didiletei			min	typ	max	
Gate-to-Drain Breakdown Voltage	V(BR)GDS	$I_G=-10\mu A, V_{DS}=0$	-40			V
Gate-to-Source Leakage Current	I _{GSS}	V _{GS} =-20V, V _{DS} =0			-500	pА
Zero-Gate Voltage Drain Current	I _{DSS} *	V _{DS} =10V, V _{GS} =0	30*		300*	μΑ
Cutoff Voltage	V _{GS(off)}	V _{DS} =10V, I _D =1μA		-1.5	-4.0	V
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		1.9		pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, V _{GS} =0, f=1MHz		0.7		pF

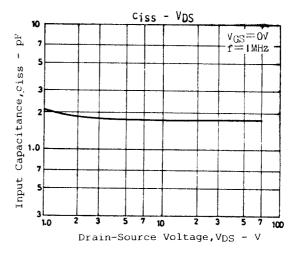
^{*} The 2SK546 is classified by $I_{\mbox{\footnotesize DSS}}$ as follows (unit : $\mbox{$\muA})$:

30 I 80 60 J 180 150 K 300

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