2SJ267



Ultrahigh-Speed Switching Applications

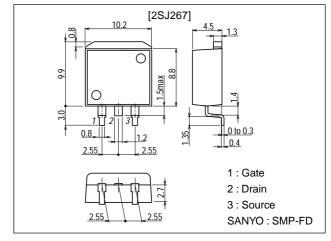
Features

- · Low ON resistance.
- · Ultrahigh-speed switching.
- · Low-voltage drive.
- · Surface mount type device making the following possible.
- · Reduction in the assembling time for 2SJ267-applied equipment.
- · High-density surface mount applications.
- · Small size of 2SJ267-applied equipment.

Package Dimensions

unit:mm

2090A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSS}		-60	V
Gate-to-Source Voltage	VGSS		±20	V
Drain Current (DC)	ID		-10	Α
Drain Current (Pulse)	I _{DP}	PW≤10μs, duty cycle≤1%	-40	Α
Allowable Power Dissipation	PD		1.65	W
		Tc=25°C	60	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =-1mA, V _{GS} =0	-60			V
Gate-to-Source Breakdown Voltage	V _(BR) GSS	I _G =±100μA, V _{DS} =0	±20			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-60V, V _{GS} =0			-100	μΑ
Gate-to-Source Leakage Current	I _{GSS}	V_{GS} =±16V, V_{DS} =0			±10	μΑ
Cutoff Voltage	VGS(off)	V _{DS} =-10V, I _D =-1mA	-1.0		-2.0	V
Forward Transfer Admittance	yfs	V _{DS} =-10V, I _D =-5A	4	7.5		S
Static Drain-to-Source ON-State Resistance	R _{DS(on)}	I _D =-5A, V _{GS} =-10V		0.11	0.15	Ω
	R _{DS(on)}	I _D =-5A, V _{GS} =-4V		0.15	0.2	Ω

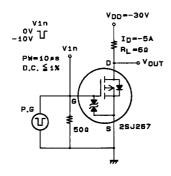
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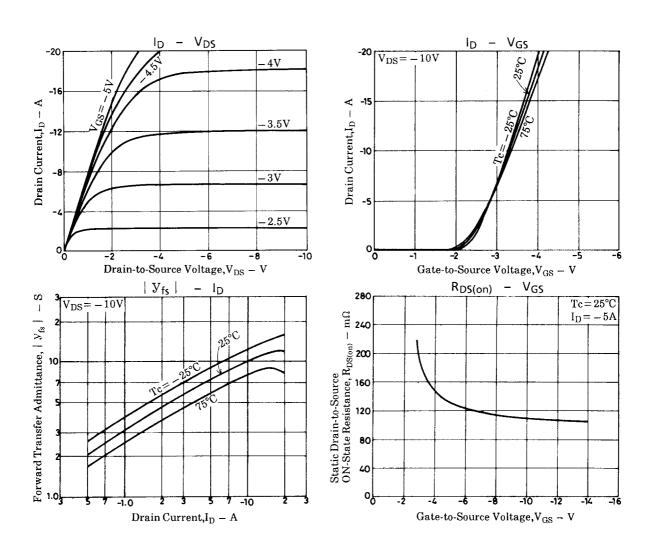
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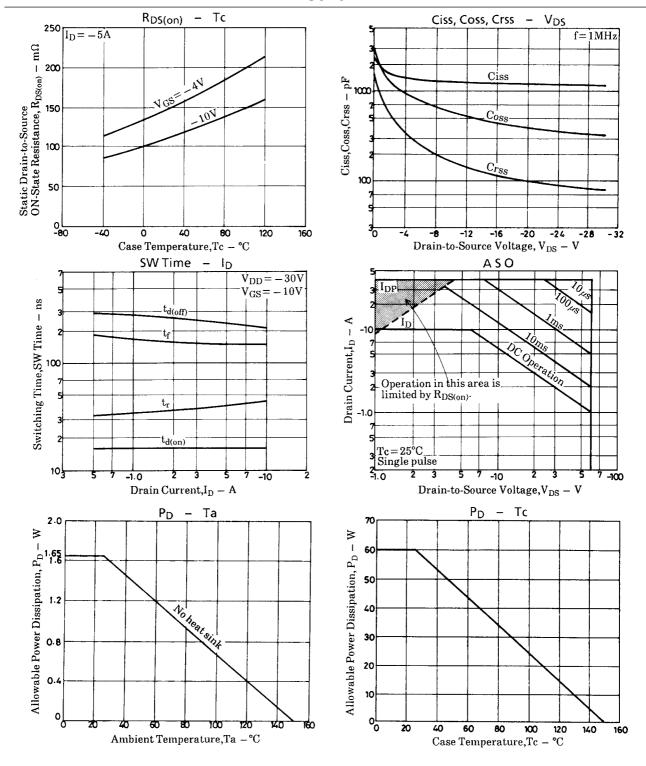
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input Capacitance	Ciss	V _{DS} =-20V, f=1MHz		1230		pF
Output Capacitance	Coss	V _{DS} =-20V, f=1MHz		390		pF
Reverse Transfer Capacitance	Crss	V _{DS} =-20V, f=1MHz		100		pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit		16		ns
Rise Time	t _r	See specified Test Circuit		40		ns
Turn-OFF Delay Time	td(off)	See specified Test Circuit		230		ns
Fall Time	t _f	See specified Test Circuit		150		ns
Diode Forward Voltage	V _{SD}	I _S =-10A, V _{GS} =0		-1.0	-1.5	V

Switching Time Test Circuit







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