

# **Specifications**

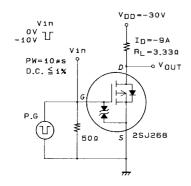
## Absolute Maximum Ratings at Ta = 25°C

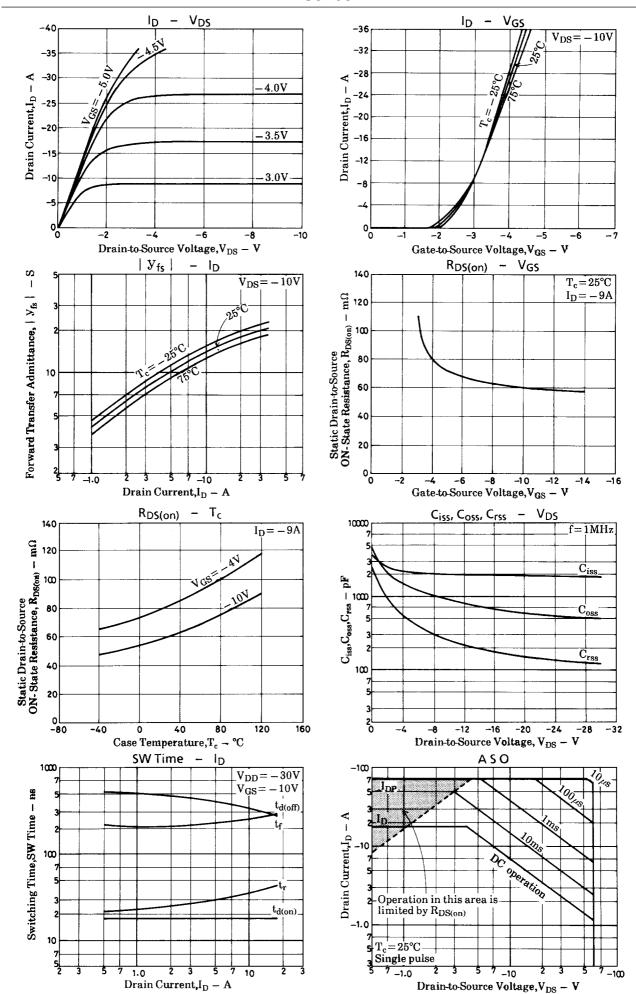
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V <sub>DSS</sub>		-60	V
Gate-to-Source Voltage	V <sub>GSS</sub>		±15	V
Drain Current (DC)	ΙD		-18	Α
Drain Current (Pulse)	I <sub>DP</sub>	PW≤10μs, duty cycle≤1%	-72	Α
Allowable Power Dissipation	D-		1.65	W
	P <sub>D</sub>	Tc=25°C	70	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

### Electrical Characteristics at Ta = 25°C

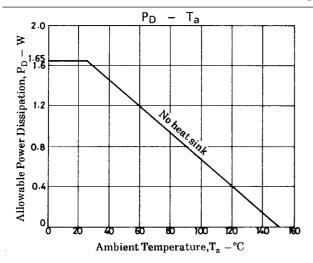
Dozometez	Symbol	Conditions	Ratings			1.1-14
Parameter			min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V <sub>(BR)DSS</sub>	I <sub>D</sub> =-1mA, V <sub>GS</sub> =0	-60			V
Gate-to-Source Breakdown Voltage	V <sub>(BR)</sub> GSS	I <sub>G</sub> =±100μA, V <sub>DS</sub> =0	±15			V
Zero-Gate Voltage Drain Current	IDSS	V <sub>DS</sub> =-60V, V <sub>GS</sub> =0			-100	μΑ
Gate-to-Source Leakage Current	IGSS	V <sub>GS</sub> =±12V, V <sub>DS</sub> =0			±10	μA
Cutoff Voltage	V <sub>GS(off)</sub>	V <sub>DS</sub> =-10V, I <sub>D</sub> =-1mA	-1.0		-2.0	V
Forward Transfer Admittance	yfs	V <sub>DS</sub> =-10V, I <sub>D</sub> =-9A	8	13.5		S
Static Drain-to-Source ON-State Resistance	R <sub>DS(on)</sub>	I <sub>D</sub> =-9A, V <sub>GS</sub> =-10V		60	80	mΩ
	R <sub>DS(on)</sub>	I <sub>D</sub> =-9A, V <sub>GS</sub> =-4V		80	110	mΩ
Input Capacitance	Ciss	V <sub>DS</sub> =-20V, f=1MHz		1900		pF
Output Capacitance	Coss	V <sub>DS</sub> =-20V, f=1MHz		600		pF
Reverse Transfer Capacitance	Crss	V <sub>DS</sub> =-20V, f=1MHz		150		pF
Turn-ON Delay Time	t <sub>d(on)</sub>	See specified Test Circuit		18		ns
Rise Time	t <sub>r</sub>	See specified Test Circuit		35		ns
Turn-OFF Delay Time	t <sub>d</sub> (off)	See specified Test Circuit		350		ns
Fall Time	t <sub>f</sub>	See specified Test Circuit		250		ns
Diode Forward Voltage	V <sub>SD</sub>	I <sub>S</sub> =-18A, V <sub>GS</sub> =0		-1.0	-1.5	V

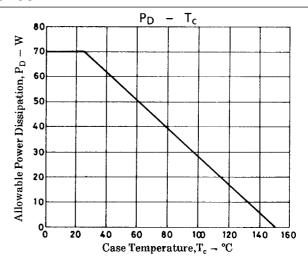
## **Switching Time Test Circuit**





#### 2SJ268





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