



PJM9926ANPA

Dual N-Channel Enhancement Mode Power MOSFET

Product Summary

- $V_{DS} = 20V, I_D = 6A$
- $R_{DS(on)} < 28m\Omega @ V_{GS} = 4.5V$
- $R_{DS(on)} < 38m\Omega @ V_{GS} = 2.5V$

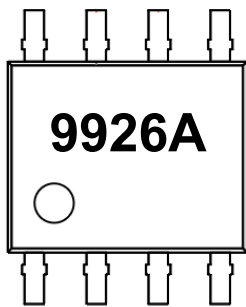
Features

- Advanced Trench Technology
- RoHS and Reach Compliant
- Halogen and Antimony Free
- Moisture Sensitivity Level 3

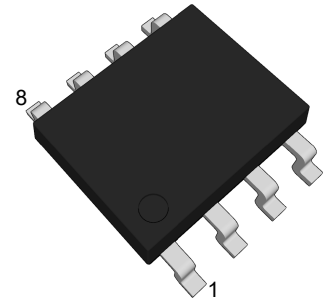
Application

- Power Switching Application
- Hard Switched and High Frequency Circuits
- Uninterruptible Power Supply

Marking Code



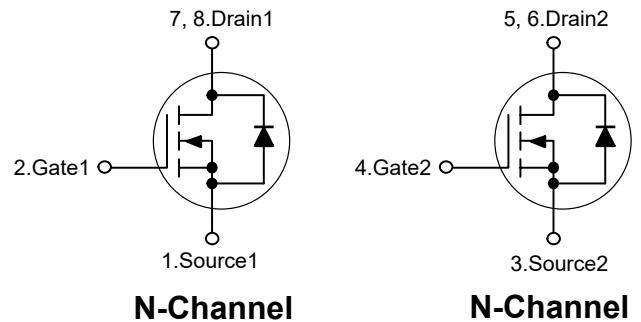
SOP-8



(Top View)

Pin	Description	Pin	Description
1	Source1	4	Gate2
2	Gate1	5,6	Drain2
3	Source2	7,8	Drain1

Schematic Diagram



Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V_{DS}	20	V
Gate-Source Voltage	V_{GS}	± 10	V
Drain Current-Continuous	I_D	6	A
Drain Current-Pulsed ^{Note1}	I_{DM}	25	A
Maximum Power Dissipation	P_D	1.8	W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Thermal Characteristics

Thermal Resistance, Junction-to-Ambient ^{Note2}	$R_{\theta JA}$	83	°C/W
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Electrical Characteristics

($T_J=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Static Characteristics						
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	$V_{GS}=0V, I_D=250\mu A$	20	--	--	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=20V, V_{GS}=0V$	--	--	1	μA
Gate-Body Leakage Current	I_{GSS}	$V_{GS}=\pm 10V, V_{DS}=0V$	--	--	± 100	nA
Gate Threshold Voltage ^{Note3}	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250\mu A$	0.5	0.7	1.2	V
Drain-Source On-Resistance ^{Note3}	$R_{DS(on)}$	$V_{GS}=4.5V, I_D=6A$	--	24	28	m Ω
		$V_{GS}=2.5V, I_D=5A$	--	33	38	m Ω
Dynamic Characteristics						
Input Capacitance	C_{iss}	$V_{DS}=10V, V_{GS}=0V, f=1\text{MHz}$	--	640	--	pF
Output Capacitance	C_{oss}		--	140	--	pF
Reverse Transfer Capacitance	C_{rss}		--	80	--	pF
Total Gate Charge	Q_g	$V_{DD}=10V,$ $V_{GS}=4.5V, I_D=4.3A$	--	6.5	--	nC
Gate-Source Charge	Q_{gs}		--	1.6	--	nC
Gate-Drain Charge	Q_{gd}		--	1.5	--	nC
Switching Characteristics						
Turn-on Delay Time	$t_{d(on)}$	$V_{DS}=10V, V_{GS}=4.5V,$ $I_D=1A, R_{GEN}=3\Omega$	--	8	--	nS
Turn-on Rise Time	t_r		--	58	--	nS
Turn-off Delay Time	$t_{d(off)}$		--	20	--	nS
Turn-off Fall Time	t_f		--	68	--	nS
Source-Drain Diode Characteristics						
Diode Forward Voltage ^{Note3}	V_{SD}	$V_{GS}=0V, I_S=6A$	--	--	1.2	V
Diode Forward Current ^{Note2}	I_S		--	--	6	A

Note: 1. Repetitive Rating: Pulse width limited by maximum junction temperature.

2. Surface Mounted on FR4 Board, $t \leq 10$ sec.

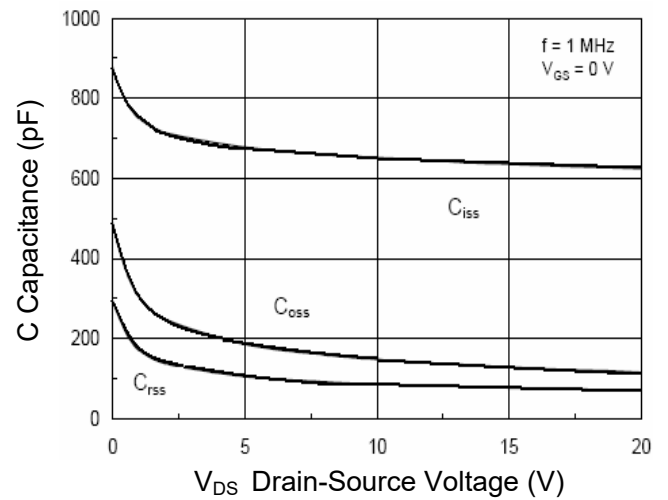
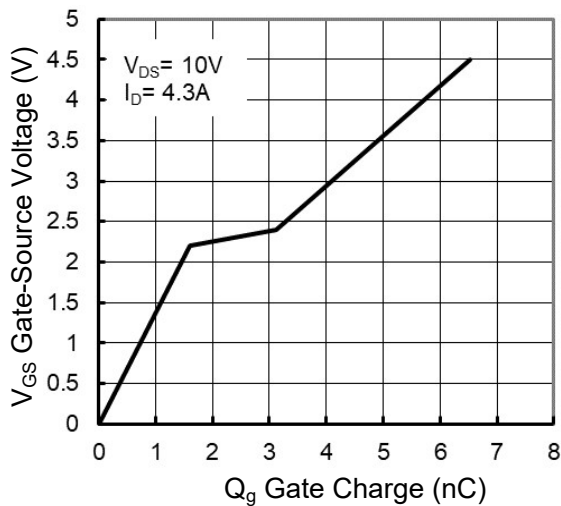
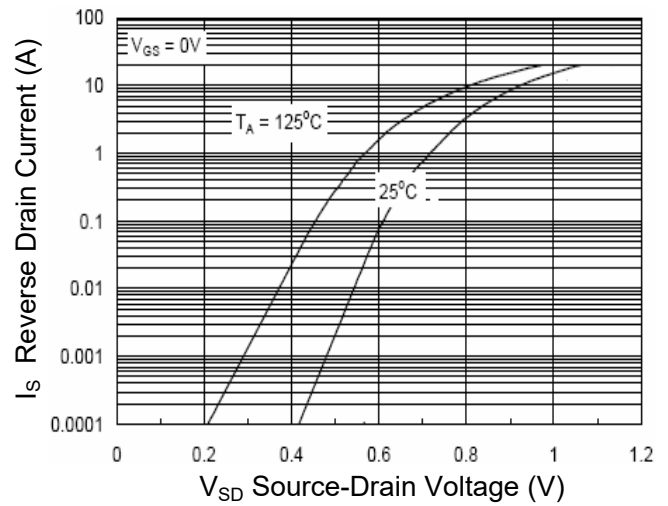
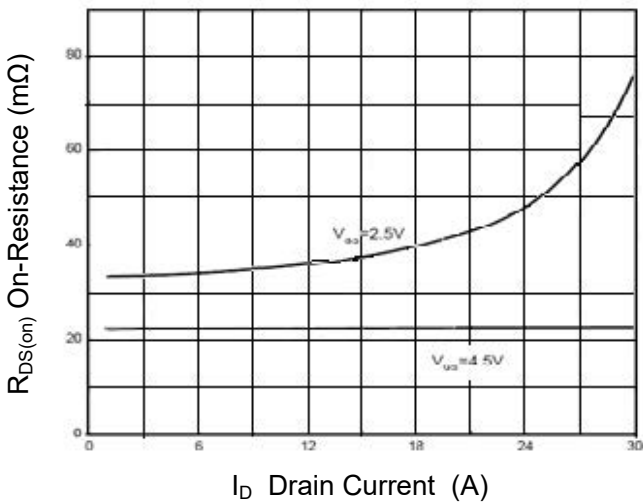
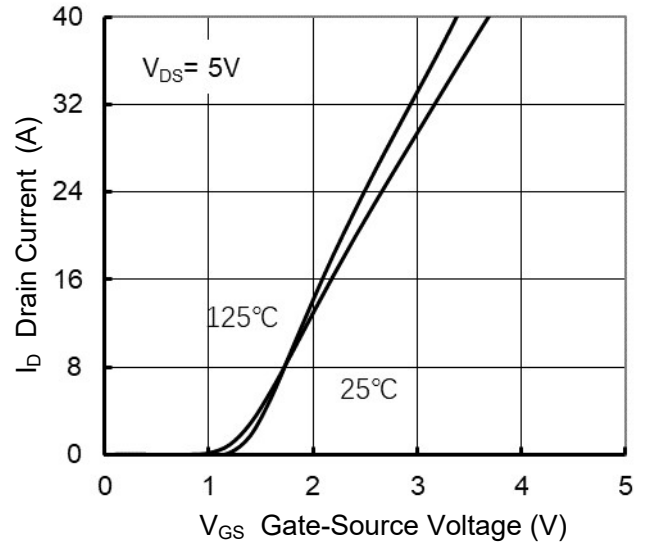
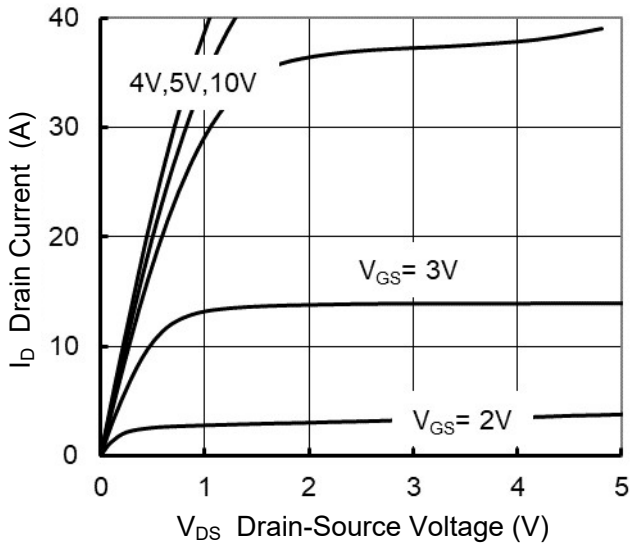
3. Pulse Test: Pulse width $\leq 300\mu s$, duty cycle $\leq 0.5\%$



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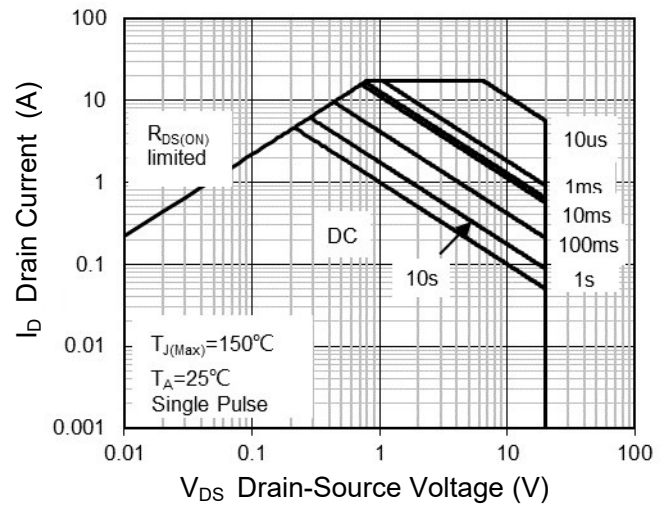
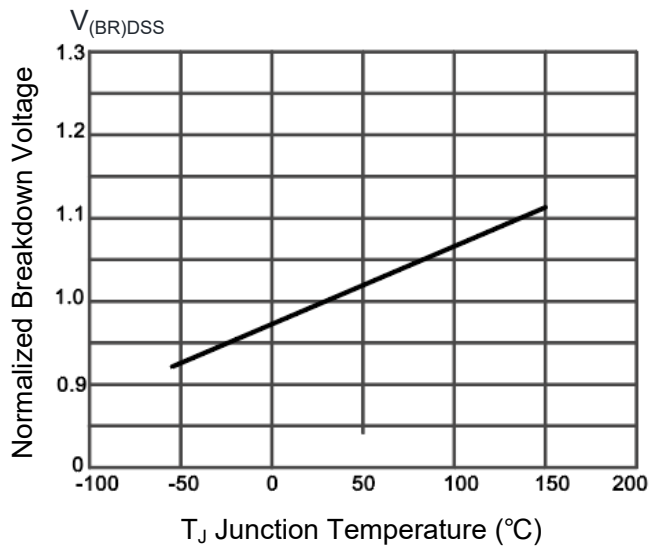
Typical Characteristic Curves





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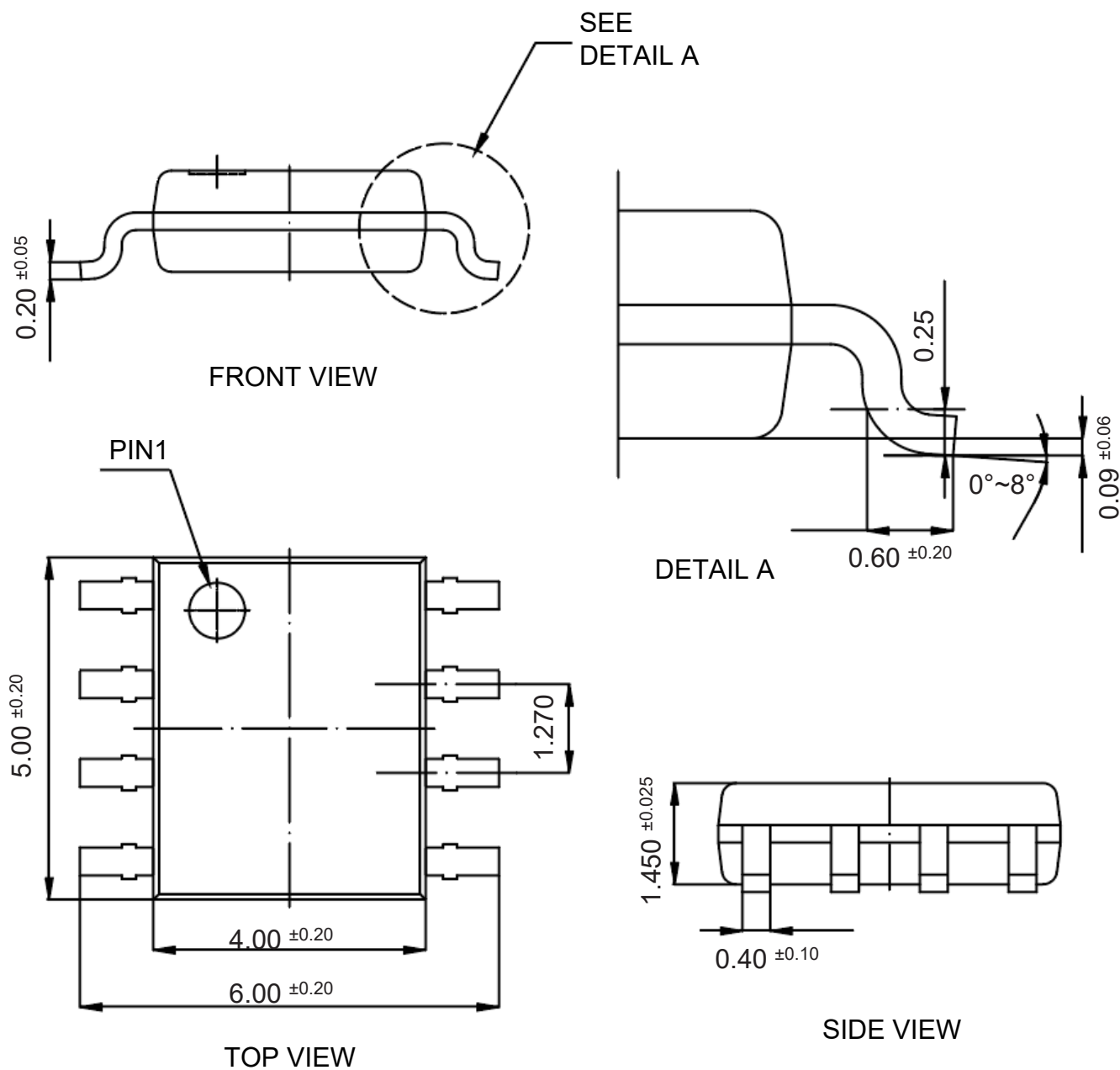
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Package Outline

SOP-8

Dimensions in mm



Ordering Information

Device	Package	Shipping
PJM9926ANPA	SOP-8	4,000PCS/Reel&13inches

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