

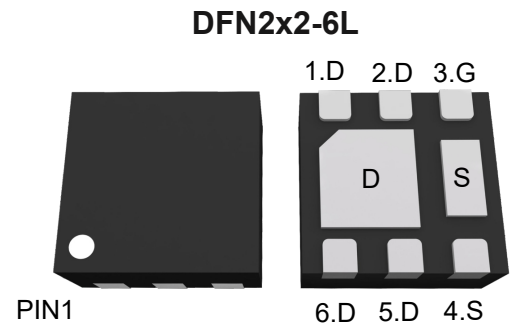


PJM15N60DF

N-Channel Enhancement Mode Power MOSFET

Features

- Low gate charge and $R_{DS(ON)}$
- $V_{DS} = 60V, I_D = 15A$
 $R_{DS(on)} < 33m\Omega @ V_{GS} = 10V$

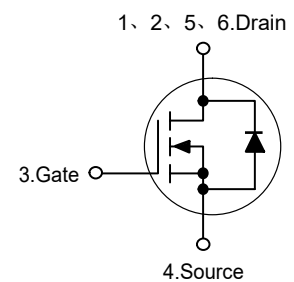


Marking Code: 15N60

Applications

- Load switch
- PWM application

Schematic Diagram



Absolute Maximum Ratings

Ratings at 25°C Case temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GS}	± 20	V
Drain Current-Continuous	I_D	15	A
Drain Current-Pulsed ^{Note1}	I_{DM}	60	A
Maximum Power Dissipation	P_D	5	W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Thermal Characteristics

Maximum Junction-to-Case ^{Note2}	$R_{\theta JC}$	25	°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	$V_{(BR)DSS}$	$V_{GS}=0V, I_D=250\mu A$	60	--	--	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=60V, V_{GS}=0V$	--	--	1	μA
Gate-Body Leakage Current	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0V$	--	--	± 100	nA
Gate Threshold Voltage ^{Note3}	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250\mu A$	1.0	--	2.5	V
Drain-Source On-Resistance ^{Note3}	$R_{DS(on)}$	$V_{GS}=10V, I_D=10A$	--	--	33	m Ω
		$V_{GS}=4.5V, I_D=5A$	--	--	45	m Ω
Dynamic Characteristics						
Input Capacitance	C_{iss}	$V_{DS}=25V, V_{GS}=0V, f=1\text{MHz}$	--	1148	--	pF
Output Capacitance	C_{oss}		--	58.5	--	pF
Reverse Transfer Capacitance	C_{rss}		--	49.4	--	pF
Switching Characteristics						
Turn-on Delay Time	$t_{d(on)}$	$V_{DS}=30V, I_D=20A$ $V_{GS}=10V, R_{GEN}=1.8\Omega$	--	7.6	--	nS
Turn-on Rise Time	t_r		--	20	--	nS
Turn-off Delay Time	$t_{d(off)}$		--	15	--	nS
Turn-off Fall Time	t_f		--	24	--	nS
Total Gate Charge	Q_g	$V_{DS}=30V, I_D=10A, V_{GS}=10V$	--	20.3	--	nC
Gate-Source Charge	Q_{gs}		--	3.7	--	nC
Gate-Drain Charge	Q_{gd}		--	5.3	--	nC
Source-Drain Diode Characteristics						
Diode Forward Voltage ^{Note3}	V_{SD}	$V_{GS}=0V, I_S=15A$	--	--	1.2	V
Diode Forward Current ^{Note2}	I_S		--	--	15	A

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

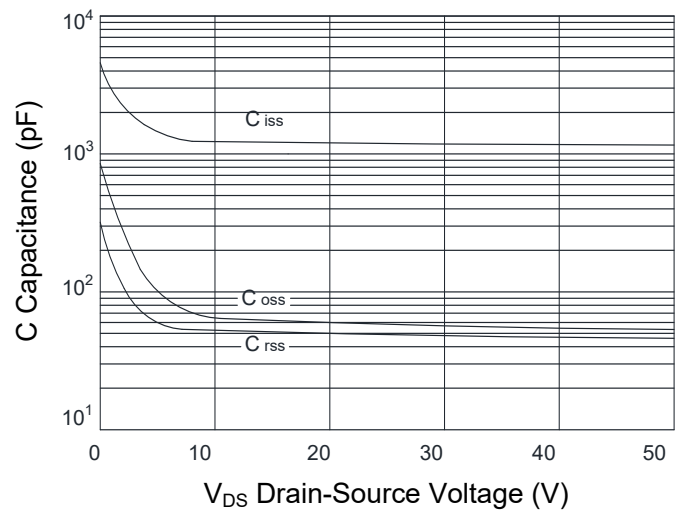
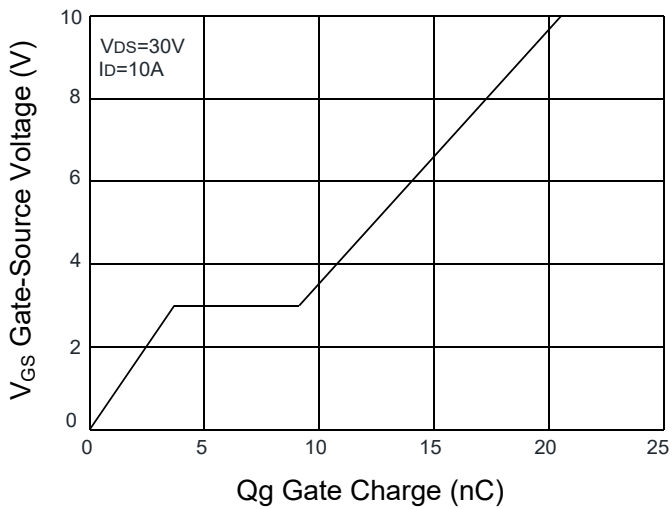
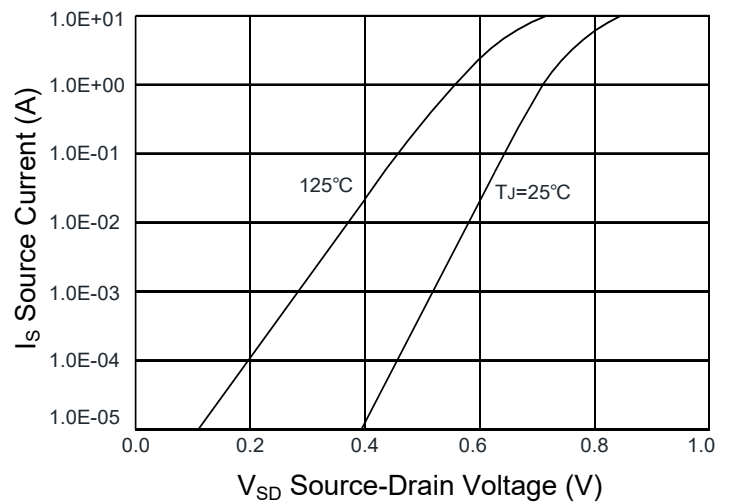
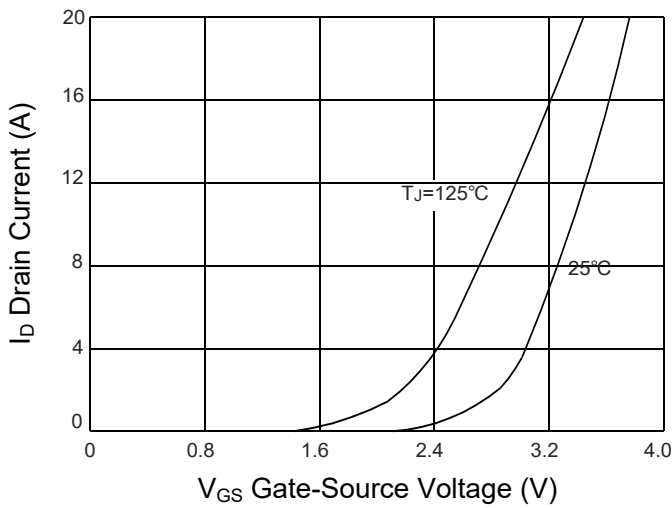
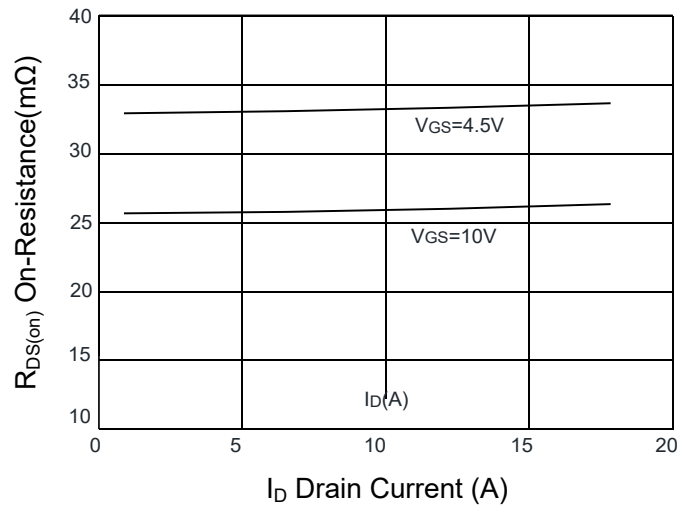
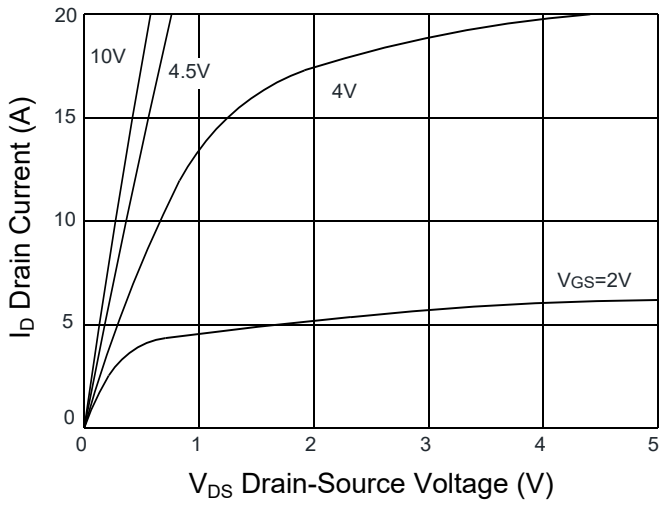
2. Pulse Test: Pulse width $\leq 300\mu s$, duty cycle $\leq 0.5\%$.



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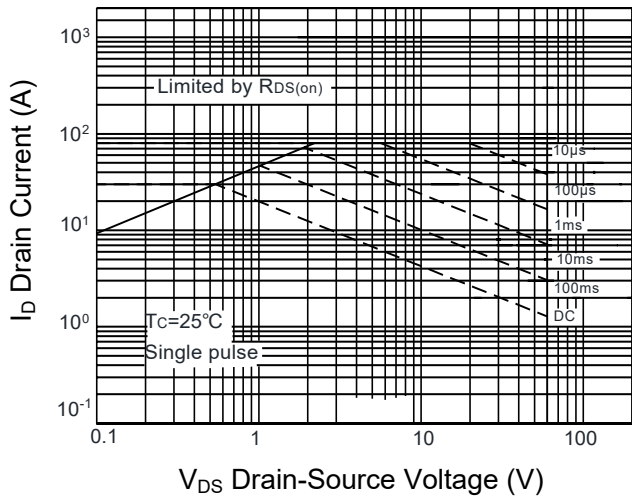
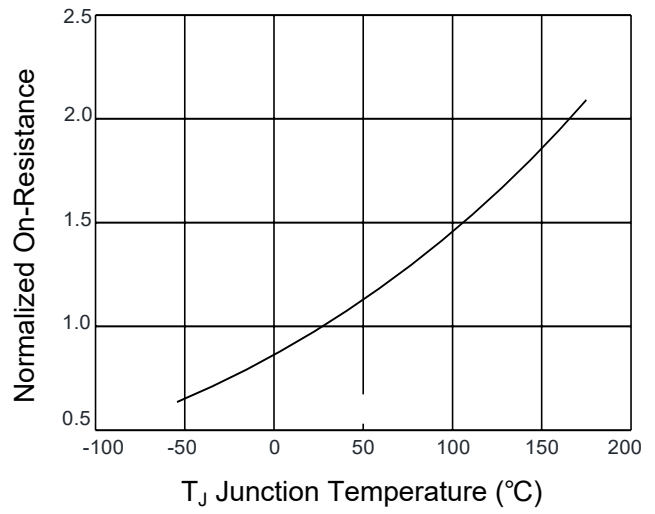
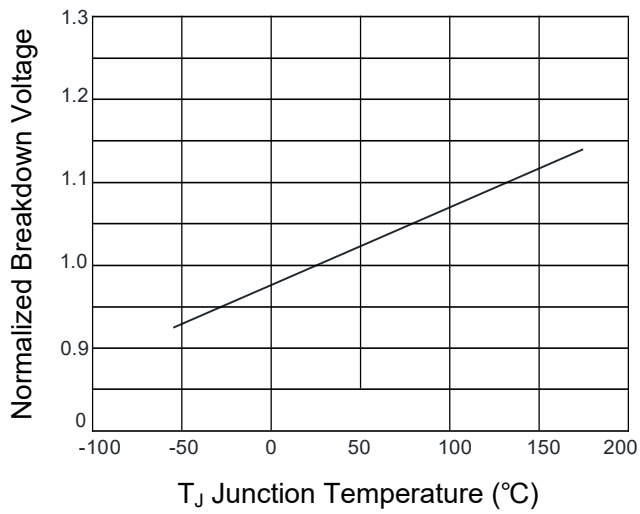
Typical Characteristic Curves





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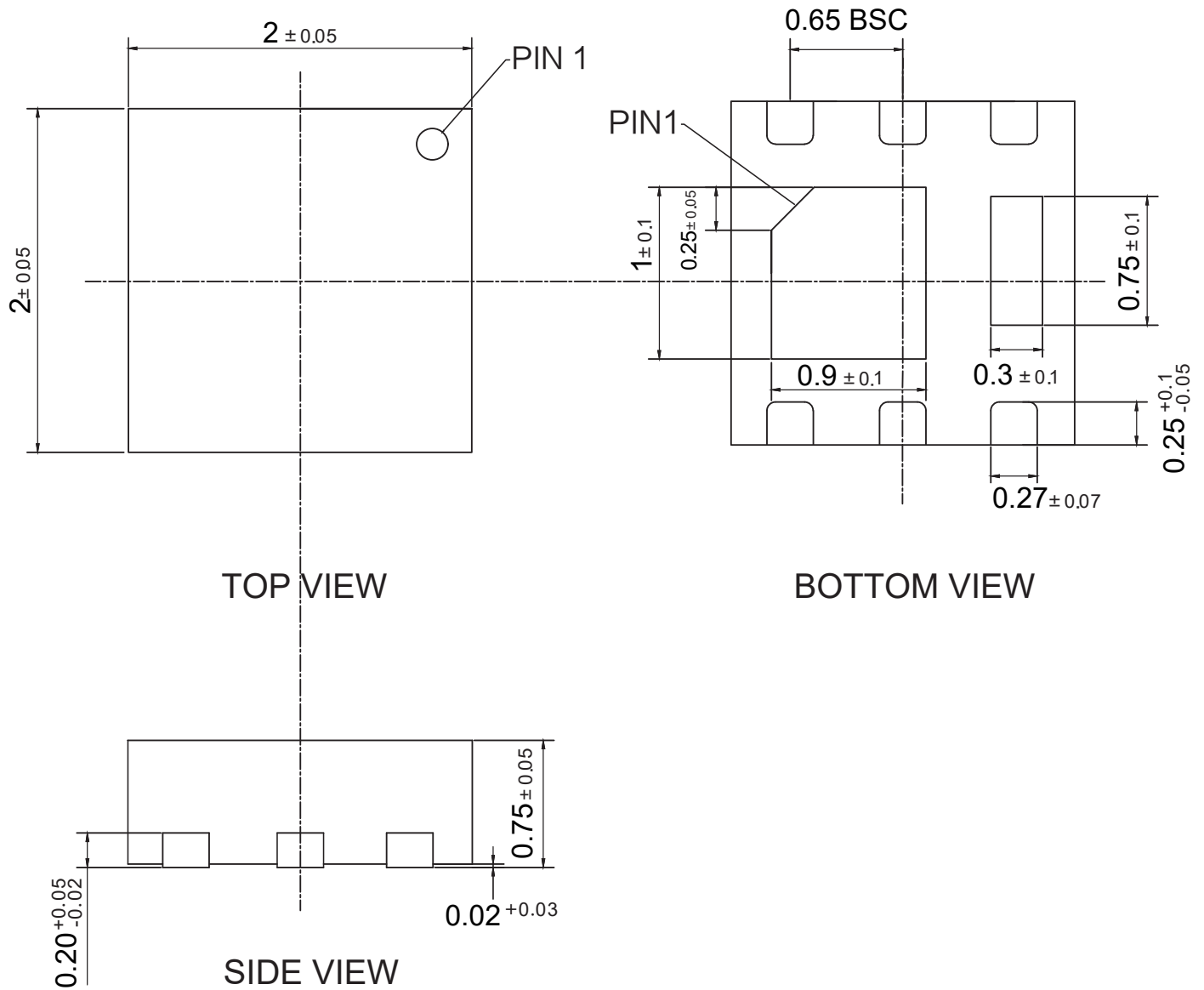
PJM15N60DF

N-Channel Enhancement Mode Power MOSFET

Package Outline

DFN2x2-6L-0001

Dimensions in mm



Ordering Information

Device	Package	Shipping
PJM15N60DF	DFN2x2A-6L	3,000PCS/Reel&7inches

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