



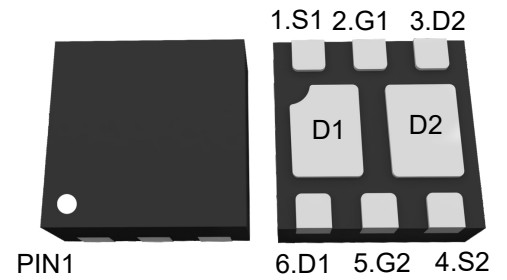
PJM3415PDFA

P-Channel Enhancement Mode Power MOSFET

Features

- Low gate charge and low $R_{DS(on)}$
- ESD protected(HBM) up to 2KV
- $V_{DS} = -20V, I_D = -4A$
 $R_{DS(on)} < 50m\Omega @ V_{GS} = -4.5V$

DFN2x2A-6L

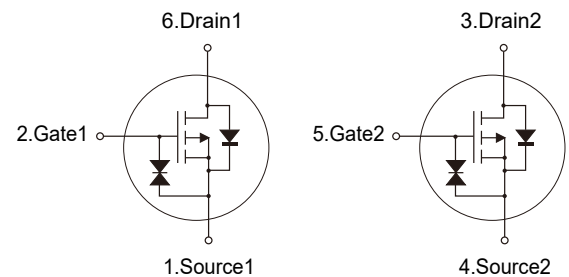


Marking Code: 3415

Applications

- PWM applications
- Load switch
- Power management

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}	± 8	V
Drain Current-Continuous	$-I_D$	4	A
Maximum Power Dissipation	P_D	1.2	W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Thermal Characteristics

Thermal Resistance, Junction-to-Ambient ^{Note1}	$R_{\theta JA}$	104	°C/W
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Electrical Characteristics

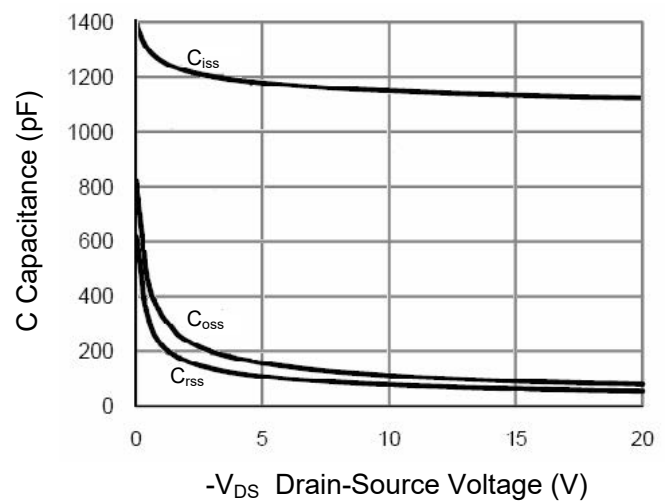
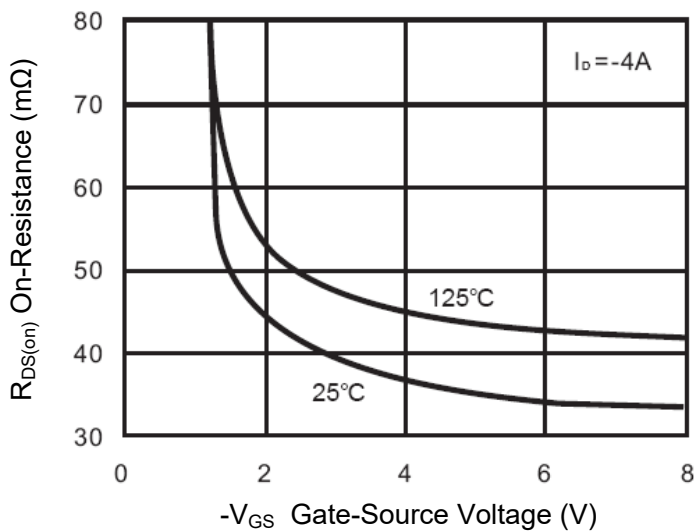
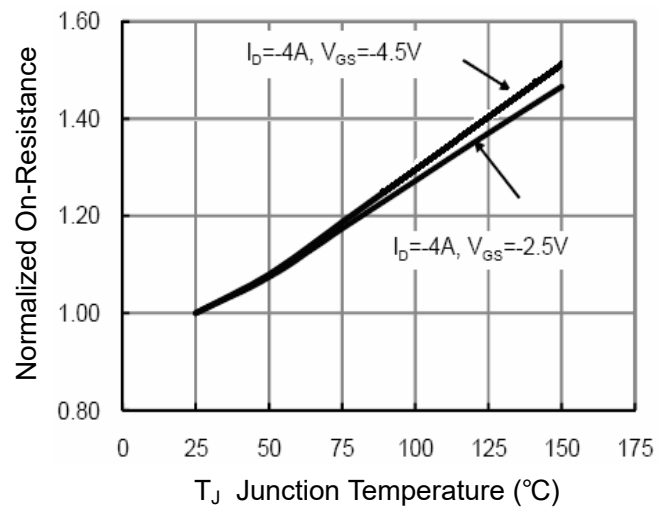
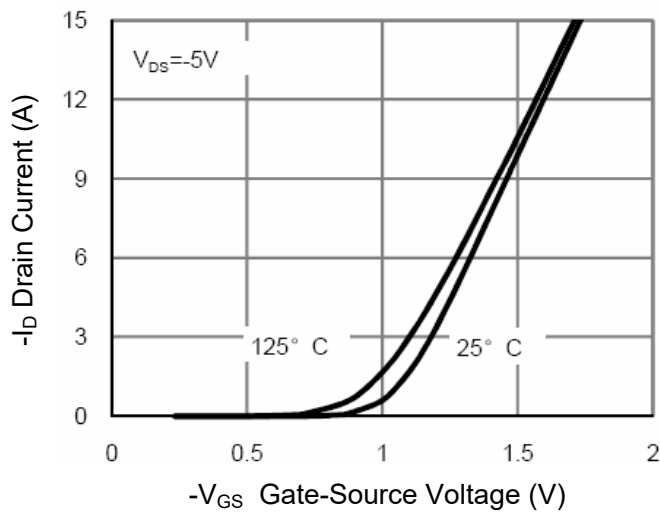
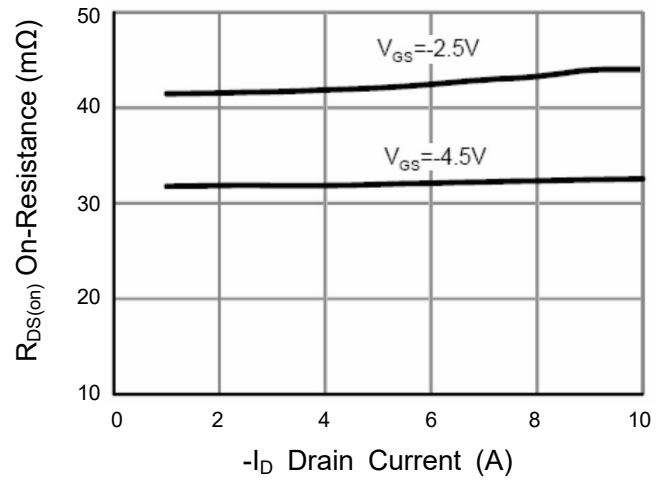
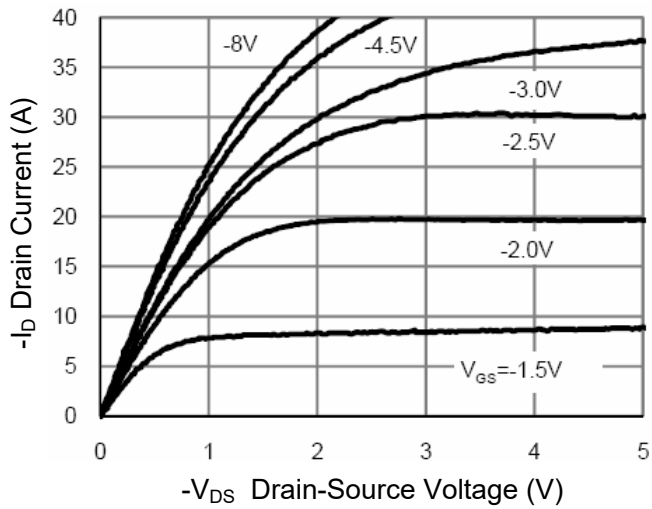
(Ta=25°C unless otherwise specified)

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}	$V_{GS}=\pm 8V, V_{DS}=0V$	--	--	± 10	μA
Gate Threshold Voltage ^{Note2}	$-V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=-250\mu A$	0.3	0.65	1	V
Drain-Source On-Resistance ^{Note2}	$R_{DS(on)}$	$V_{GS}=-4.5V, I_D=-4A$	--	33	50	m Ω
		$V_{GS}=-2.5V, I_D=-4A$	--	42	60	m Ω
Forward Transconductance ^{Note2}	g_{FS}	$V_{DS}=-5V, I_D=-4A$	8	--	--	S
Dynamic Characteristics						
Input Capacitance	C_{iss}	$V_{DS}=-10V, V_{GS}=0V, f=1MHz$	--	1181.1	--	pF
Output Capacitance	C_{oss}		--	121.3	--	pF
Reverse Transfer Capacitance	C_{rss}		--	114.8	--	pF
Switching Characteristics						
Turn-on Delay Time	$t_{d(on)}$	$V_{DD}=-10V, R_L=2.5\Omega, V_{GS}=-4.5V, R_G=3\Omega$	--	12	--	nS
Turn-on Rise Time	t_r		--	10	--	nS
Turn-off Delay Time	$t_{d(off)}$		--	19	--	nS
Turn-off Fall Time	t_f		--	25	--	nS
Total Gate Charge	Q_g	$V_{DS}=-10V, I_D=-4A, V_{GS}=-4.5V$	--	10.2	--	nC
Gate-Source Charge	Q_{gs}		--	1.3	--	nC
Gate-Drain Charge	Q_{gd}		--	2.4	--	nC
Source-Drain Diode Characteristics						
Diode Forward Voltage ^{Note2}	$-V_{SD}$	$V_{GS}=0V, I_S=-4A$	--	--	1.2	V
Diode Forward Current ^{Note1}	$-I_S$		--	--	4	A

Note: 1. Surface Mounted on FR4 Board, $t \leq 10$ sec.
2. Pulse Test: Pulse width $\leq 300\mu s$, duty cycle $\leq 2\%$.



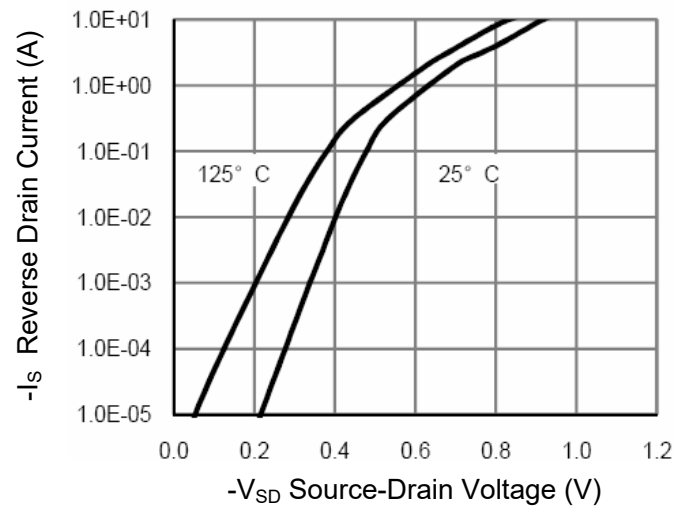
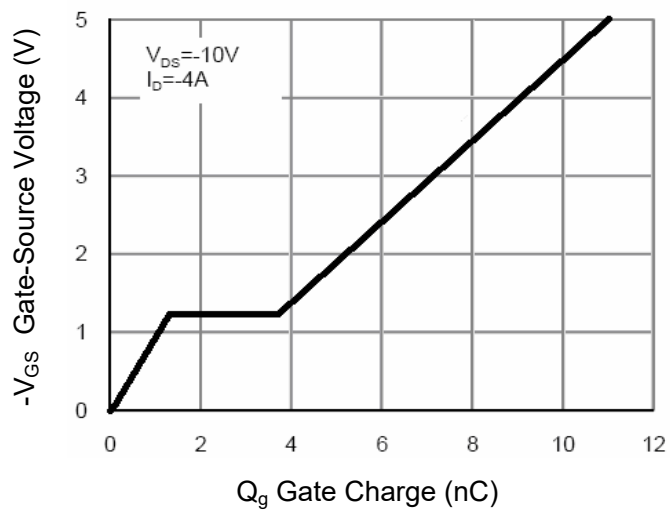
Typical Characteristic Curves





PJM3415PDFA

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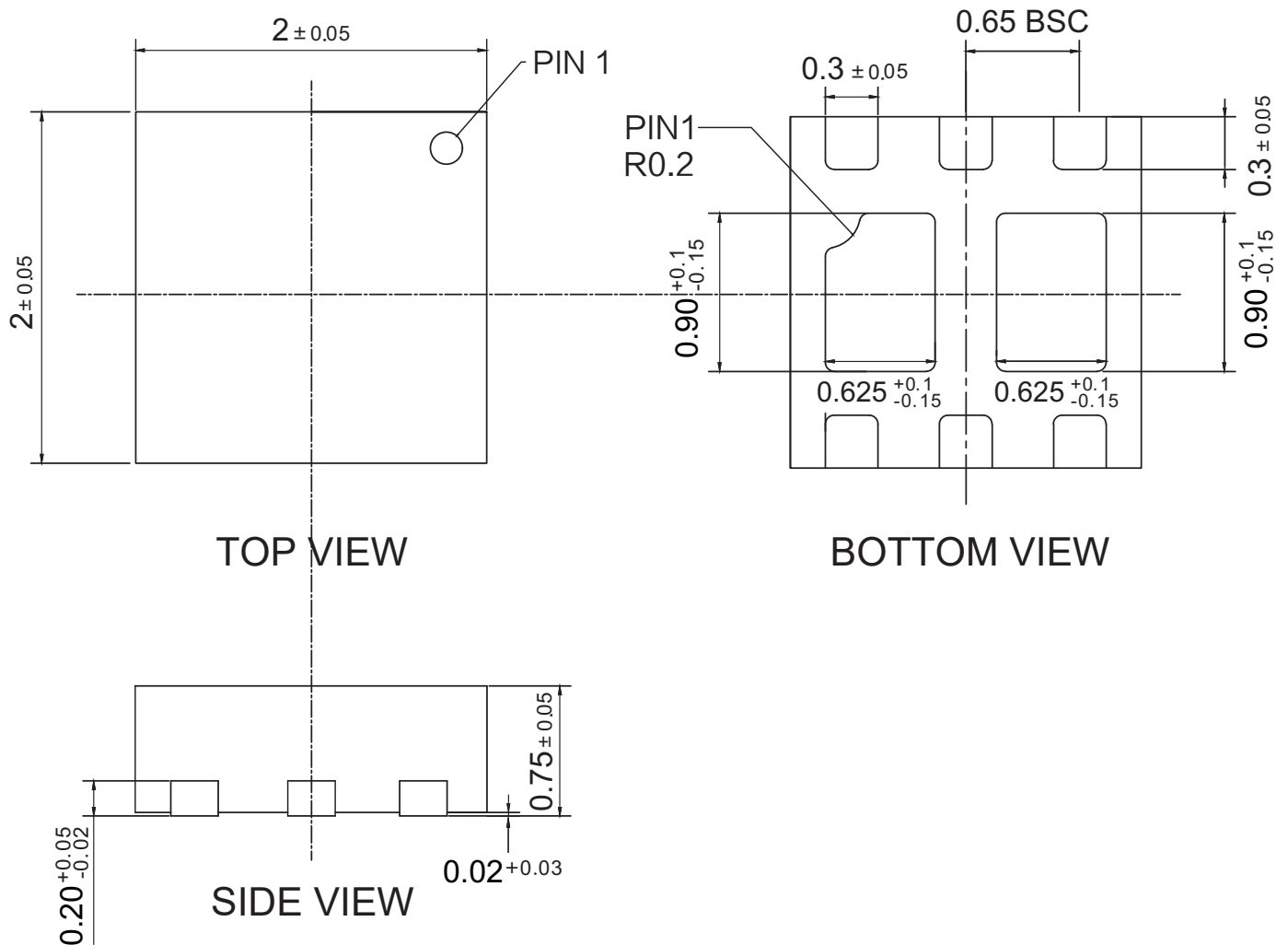
PJM3415PDFA

P-Channel Enhancement Mode Power MOSFET

Package Outline

DFN2x2-6L-0002

Dimensions in mm



Ordering Information

Device	Package	Shipping
PJM3415PDFA	DFN2x2A-6L	3,000PCS/Reel&7inches

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