

Descriptions

This is Double P+P-CHANNEL MOSFET in a DFN2×2C-6L Plastic Package.

Features

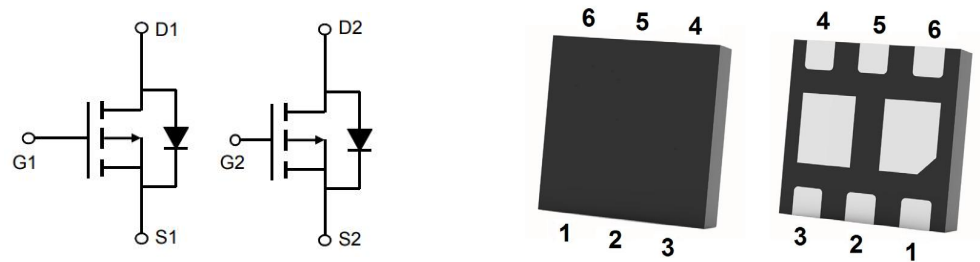
HF Product

Parameter	Value	Unit
V_{DS}	-16	V
I_D	-7.8	A
$R_{DS(ON)(MAX)}@V_{GS} = -4.5V$	20	mΩ
$R_{DS(ON)(MAX)}@V_{GS} = -2.5V$	25	mΩ
$R_{DS(ON)(MAX)}@V_{GS} = -1.8V$	100	mΩ

Applications

Load Switch, Battery Switch for Portable Devices, High-Speed Line Driver.

Equivalent Circuit & Pinning



出脚	定义
PIN1	S1
PIN2	G1
PIN3	D2
PIN4	S2
PIN5	G2
PIN6	D1

DFN2×2C-6L

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DSS}	-16	V
Gate-Source Voltage	V _{GSS}	±12	V
Continuous Drain Current	I _D	-7.8	A
Pulsed Drain Current	I _{DM}	-30.5	A
Power Dissipation	P _D	1.7	W
Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C
Maximum Junction-to-Ambient	R _{θJA}	73.5	°C/W

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV _{DSS}	I _D =-250μA V _{GS} =0V	-16	-17		V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-12V V _{GS} =0V			-1.0	μA
Gate-Body leakage current	I _{GSS}	V _{DS} =0V V _{GS} =±12V			±100	nA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} I _D =-250μA	-0.5	-0.6	-1.0	V
Static Drain-Source On-Resistance	R _{DS(ON)}	V _{GS} =-4.5V I _D =-3.5A		16.7	20	mΩ
		V _{GS} =-2.5V I _D =-3.5A		22.5	25	
		V _{GS} =-1.8V I _D =-1A		32.5	100	
Diode Forward Voltage	V _{SD}	I _S =-1A V _{GS} =0V			-1.2	V
Gate resistance	R _g	V _{GS} =0V, V _{DS} =0V, f=1MHz		5.8		Ω
Input Capacitance	C _{iss}	V _{GS} =0V V _{DS} =-5V f=1MHz		1690		pF
Output Capacitance	C _{oss}			960		
Reverse Transfer Capacitance	C _{rss}			745		
Total Gate Charge	Q _g	V _{GS} =-4.5V, V _{DS} =-10V, I _D =-7.0A		13		nC
Gate Source Charge	Q _{gs}			2.5		
Gate Drain Charge	Q _{gd}			4.2		
Turn-On Delay Time	t _{d(on)}	V _{GS} =-4.5V V _{DS} =-10V R _L =1.45Ω R _{GEN} =3Ω		7.5		ns
Turn-On Rise Time	t _r			29.2		
Turn-Off Delay Time	t _{d(off)}			103		
Turn-Off Fall Time	t _f			50		

Electrical Characteristic Curve

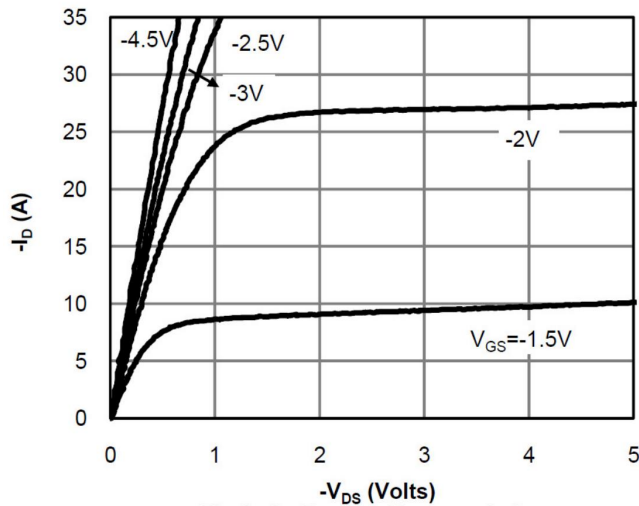


Fig 1: On-Region Characteristics

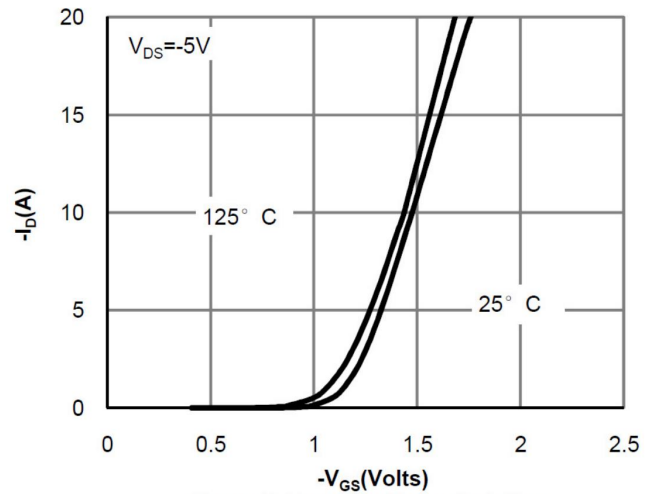


Figure 2: Transfer Characteristics

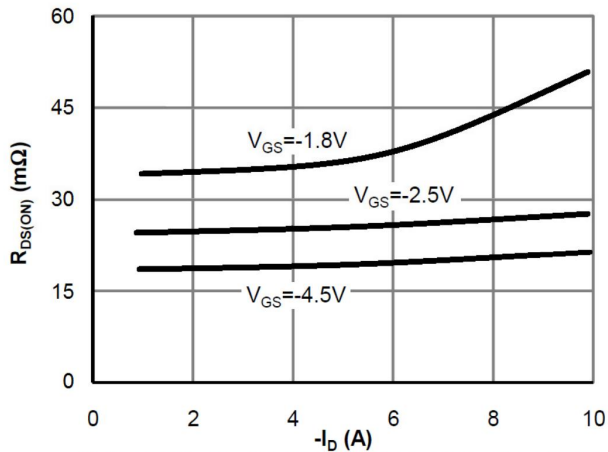


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

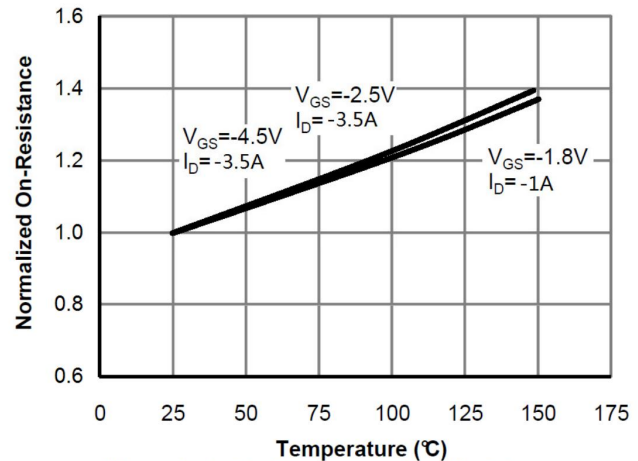


Figure 4: On-Resistance vs. Junction Temperature

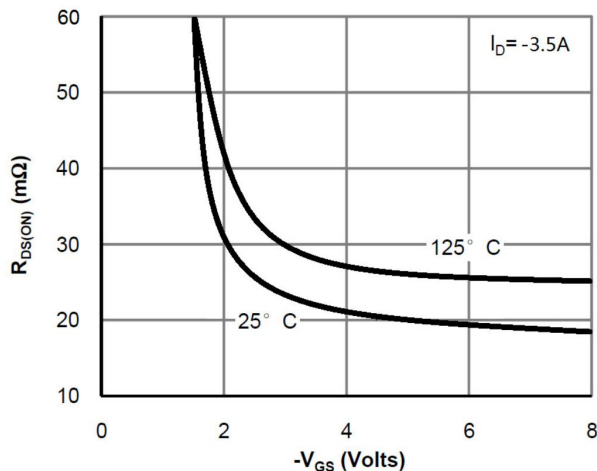


Figure 5: On-Resistance vs. Gate-Source Voltage

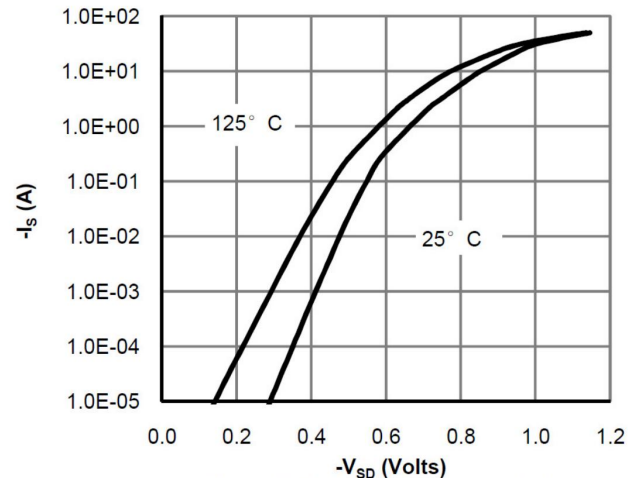
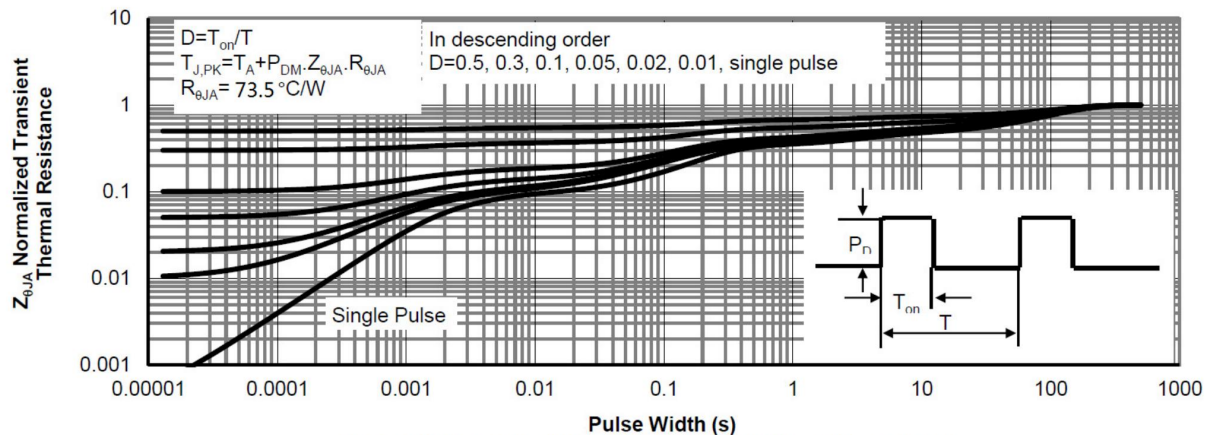
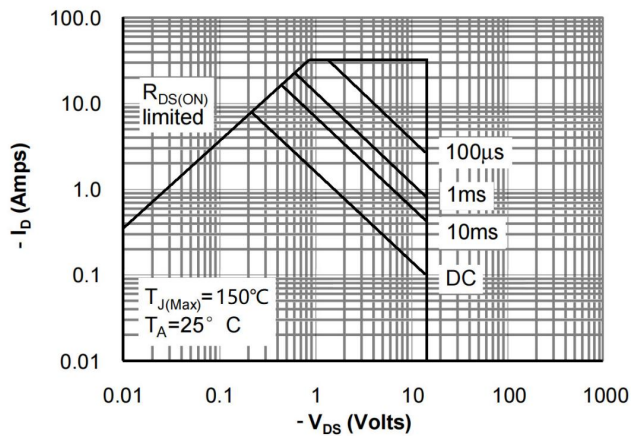
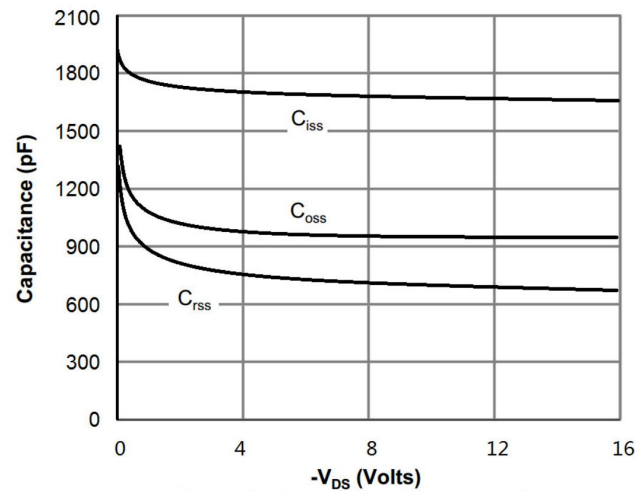
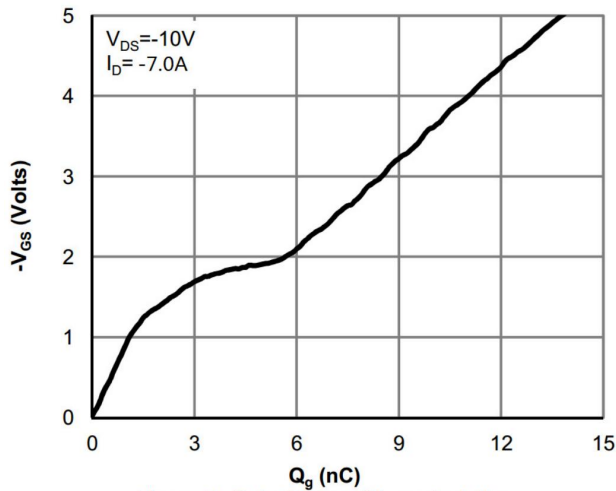
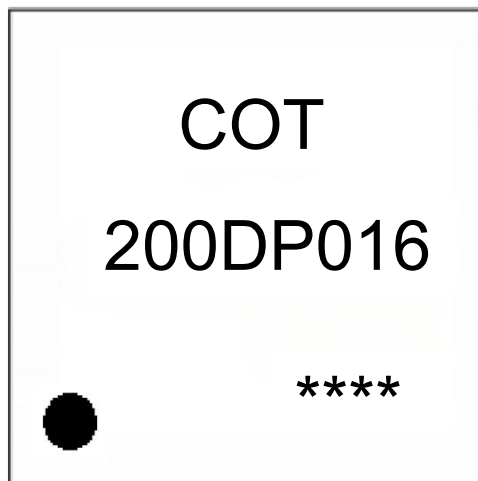


Figure 6: Body-Diode Characteristics

Electrical Characteristic Curve



Marking Instructions



Note:

COT:

Company Code

200DP016:

Product Type Code

****:

Lot No. Code, code change with Lot No.

Packaging SPEC

REEL

Package Type	Units					Dimension(unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
DFN2×2C-6L	4,000	10	40,000	4	160,000	7" ×8	210×205×205	445×435×230

Package Outline Dimensions

DFN2 ×2C-6L-0.5

Unit:mm

