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6HP04CH

P-Channel Small Single MOSFET –60V, –370mA, 4.2Ω, Single CPH3

Features

- 4V drive
- Halogen free compliance
- Protection diode in

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain to Source Voltage	V _{DSS}		–60	V
Gate to Source Voltage	V _{GSS}		±20	V
Drain Current (DC)	I _D		–370	mA
Drain Current (Pulse)	I _{DP}	PW≤10μs, duty cycle≤1%	–1480	mA
Allowable Power Dissipation	P _D	When mounted on ceramic substrate (900mm ² ×0.8mm)	0.6	W
Channel Temperature	T _{ch}		150	°C
Storage Temperature	T _{stg}		–55 to +150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

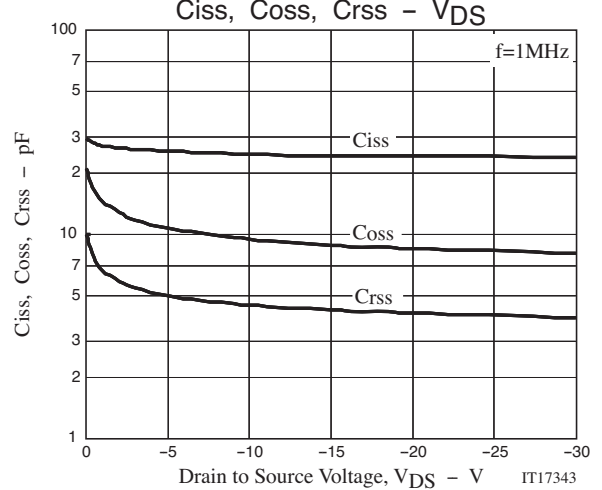
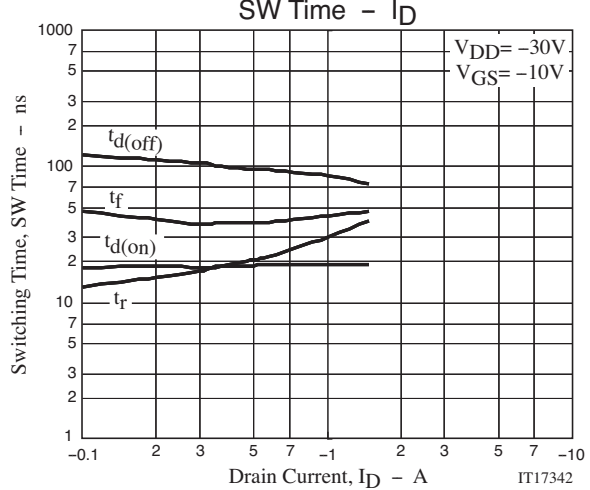
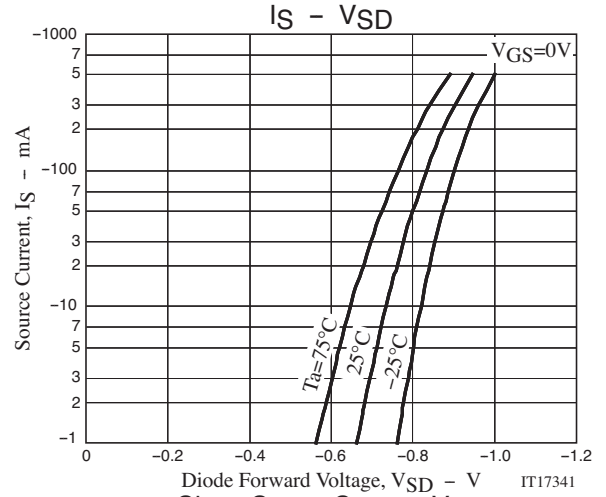
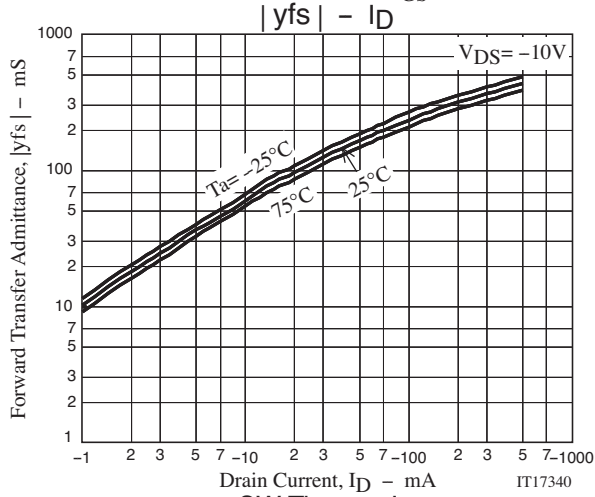
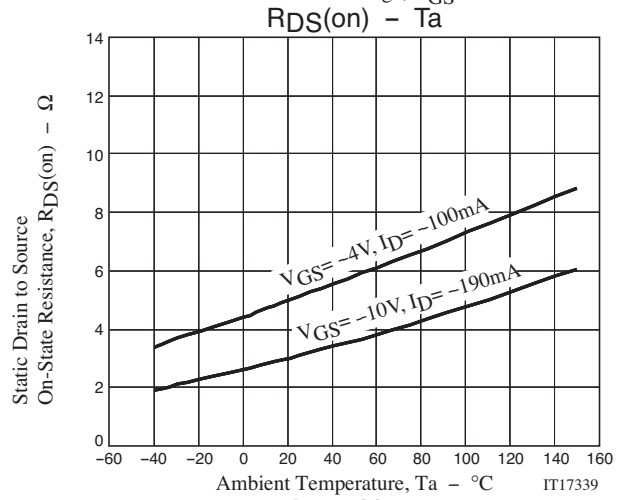
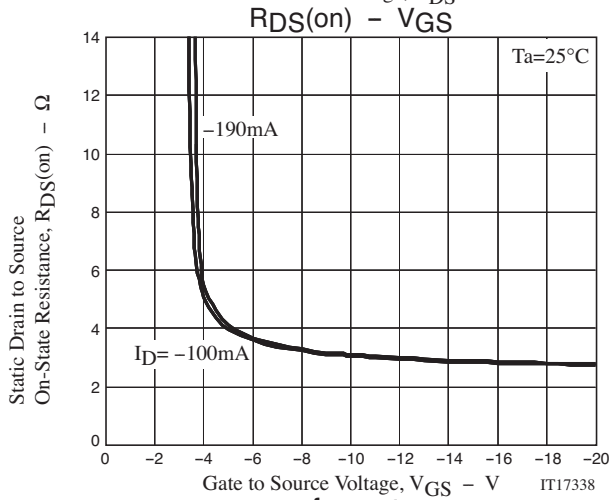
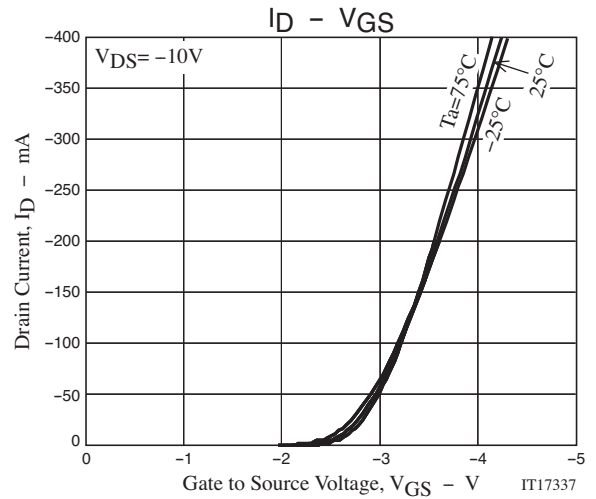
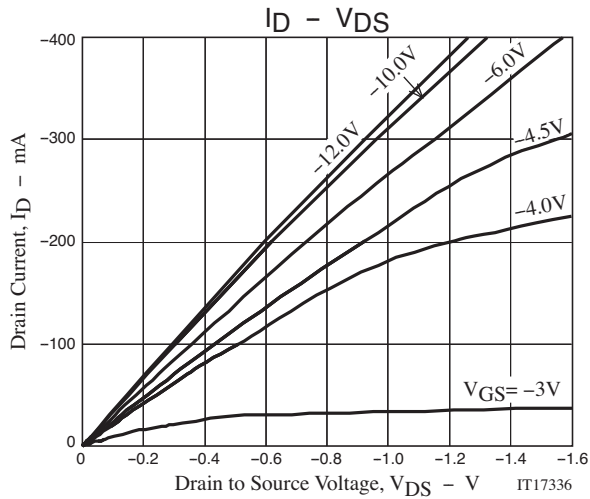
Electrical Characteristics at Ta=25°C

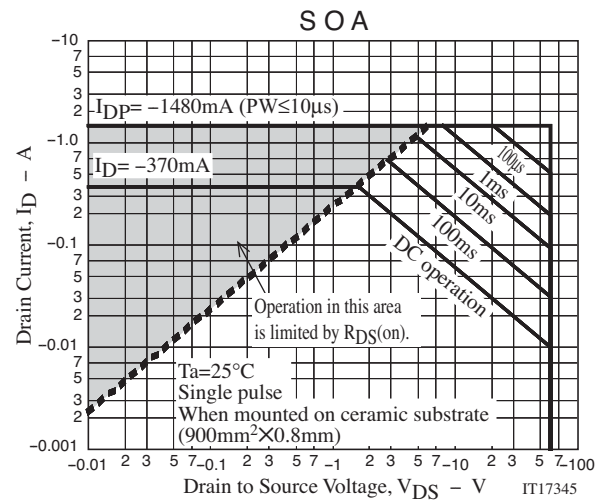
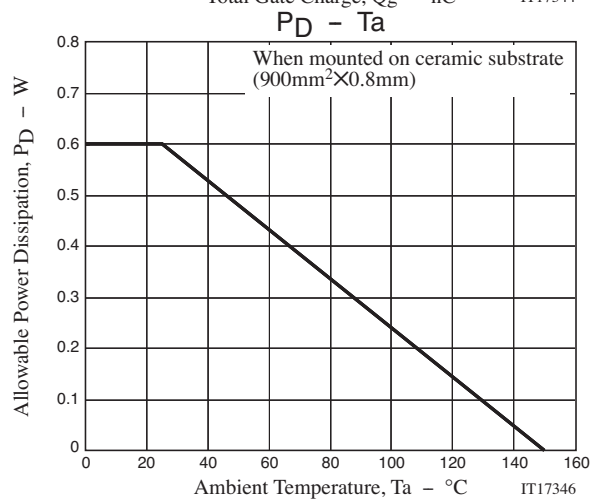
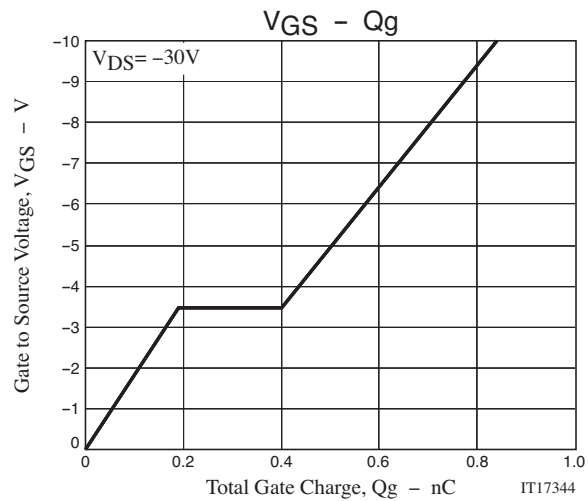
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain to Source Breakdown Voltage	V _{(BR)DSS}	I _D =–1mA, V _{GS} =0V	–60			V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =–60V, V _{GS} =0V			–1	μA
Gate to Source Leakage Current	I _{GSS}	V _{GS} =±16V, V _{DS} =0V			±10	μA
Cutoff Voltage	V _{GS(off)}	V _{DS} =–10V, I _D =–100μA	–1.2		–2.6	V
Forward Transfer Admittance	y _{fs}	V _{DS} =–10V, I _D =–190mA		310		mS
Static Drain to Source On-State Resistance	R _{DS(on)1}	I _D =–190mA, V _{GS} =–10V		3.1	4.2	Ω
	R _{DS(on)2}	I _D =–100mA, V _{GS} =–4V		5.1	7.3	Ω
Input Capacitance	C _{iss}	V _{DS} =–20V, f=1MHz		24.1		pF
Output Capacitance	C _{oss}			8.5		pF
Reverse Transfer Capacitance	C _{rss}			4.1		pF
Turn-ON Delay Time	t _{d(on)}			18.4		ns
Rise Time	t _r	See specified Test Circuit.		15.2		ns
Turn-OFF Delay Time	t _{d(off)}			113		ns
Fall Time	t _f			41		ns
Total Gate Charge	Q _g	V _{DS} =–30V, V _{GS} =–10V, I _D =–370mA		0.84		nC
Gate to Source Charge	Q _{gs}			0.19		nC
Gate to Drain "Miller" Charge	Q _{gd}			0.21		nC
Diode Forward Voltage	V _{SD}	I _S =–370mA, V _{GS} =0V		–0.92	–1.2	V

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

ORDERING INFORMATION

See detailed ordering and shipping information on page 4 of this data sheet.





Package Dimensions

6HP04CH-TL-W

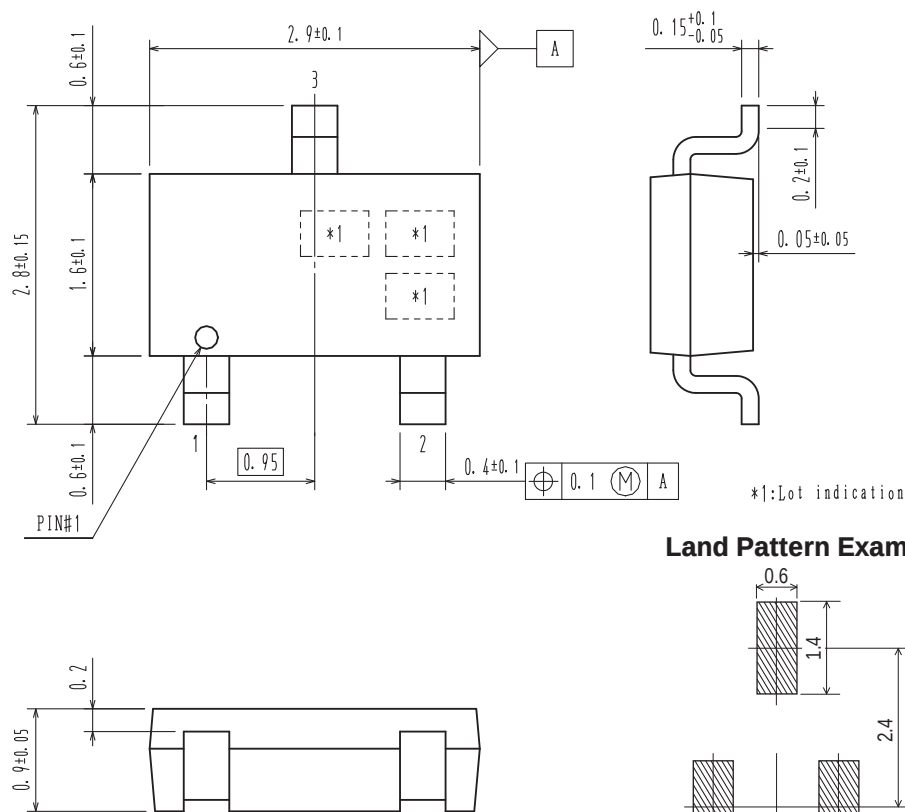
CPH3

CASE 318BA

ISSUE 0

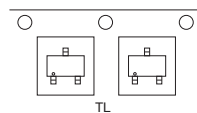
Unit : mm

- 1: Gate
- 2: Source
- 3: Drain

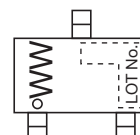


Ordering & Package Information

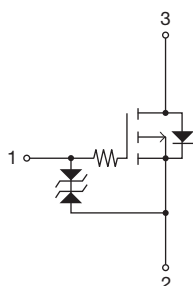
Device	Package	Shipping	memo
6HP04CH-TL-W	CPH3, SC-59 SOT-23, TO-236	3,000 pcs. / reel	Pb-Free and Halogen Free

Packing Type:TL

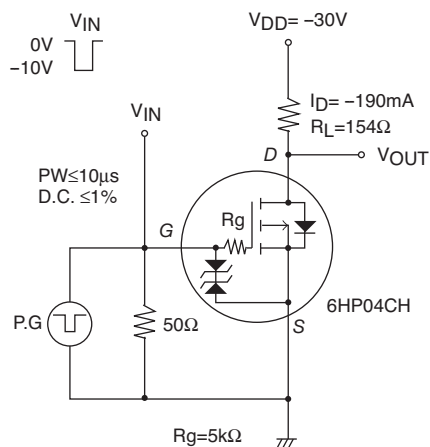
Marking



Electrical Connection



Switching Time Test Circuit



Note on usage : Since the 6HP04CH is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.