

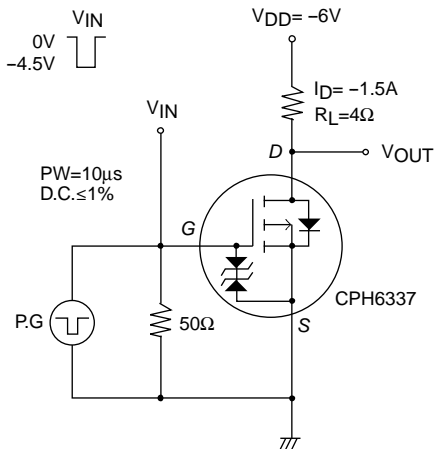
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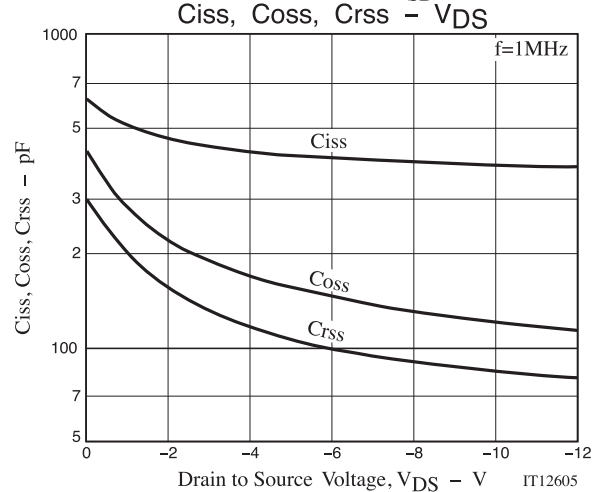
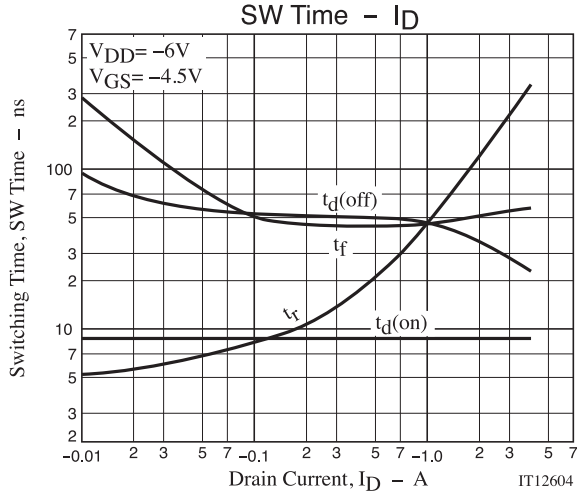
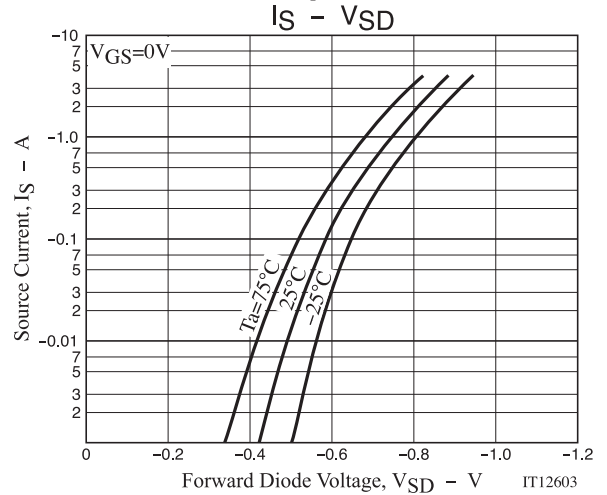
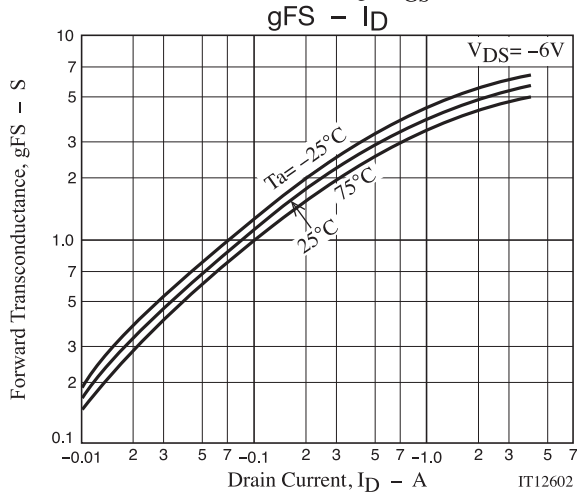
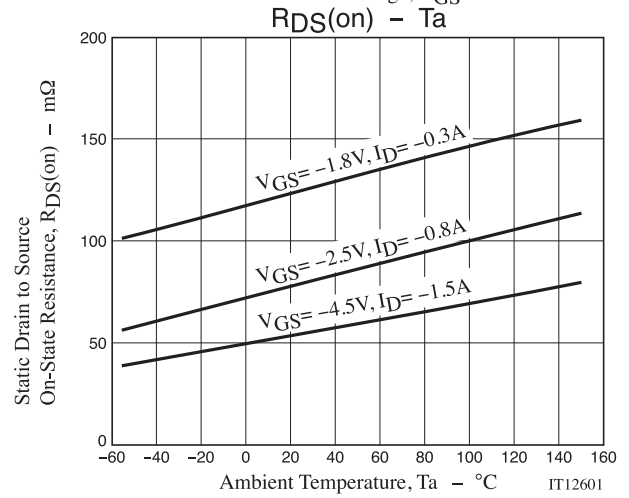
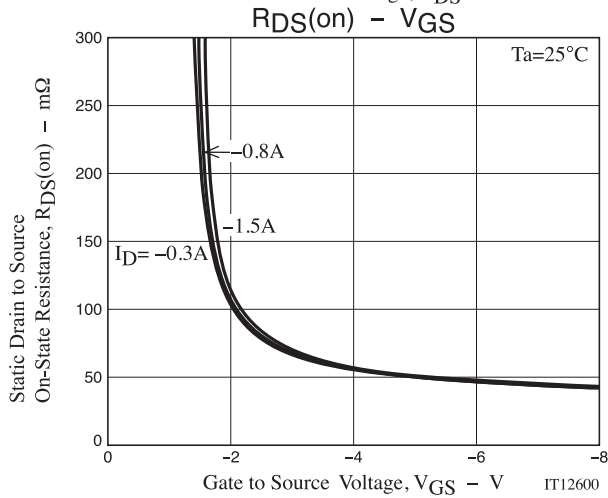
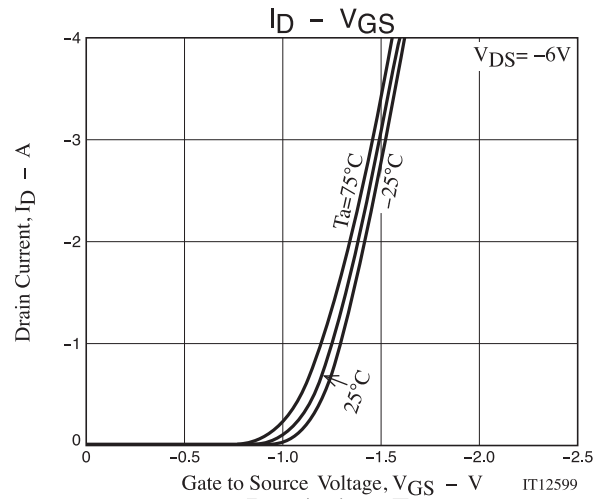
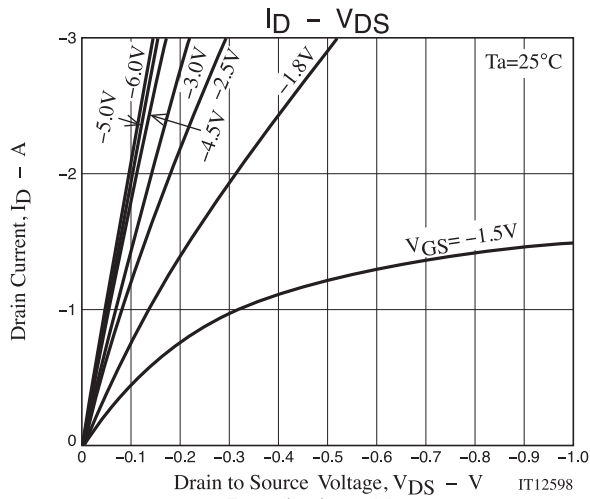
ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 3)

Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Drain to Source Breakdown Voltage	V(BR)DSS	I _D =-1mA, V _{GS} =0V	-12			V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =-12V, V _{GS} =0V			-10	μA
Gate to Source Leakage Current	I _{GSS}	V _{GS} =±8V, V _{DS} =0V			±10	μA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =-6V, I _D =-1mA	-0.4		-1.4	V
Forward Transconductance	g _{FS}	V _{DS} =-6V, I _D =-1.5A	2.7	4.5		S
Static Drain to Source On-State Resistance	R _{DS(on)1}	I _D =-1.5A, V _{GS} =-4.5V		54	70	mΩ
	R _{DS(on)2}	I _D =-0.8A, V _{GS} =-2.5V		80	115	mΩ
	R _{DS(on)3}	I _D =-0.3A, V _{GS} =-1.8V		125	215	mΩ
Input Capacitance	C _{iss}	V _{DS} =-6V, f=1MHz		405		pF
Output Capacitance	C _{oss}			145		pF
Reverse Transfer Capacitance	C _{rss}			100		pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit		8.8		ns
Rise Time	t _r			80		ns
Turn-OFF Delay Time	t _{d(off)}			41		ns
Fall Time	t _f			50		ns
Total Gate Charge	Q _g	V _{DS} =-6V, V _{GS} =-4.5V, I _D =-3.5A		5.6		nC
Gate to Source Charge	Q _{gs}			0.7		nC
Gate to Drain "Miller" Charge	Q _{gd}			1.6		nC
Forward Diode Voltage	V _{SD}	I _S =-3.5A, V _{GS} =0V		-0.86	-1.5	V

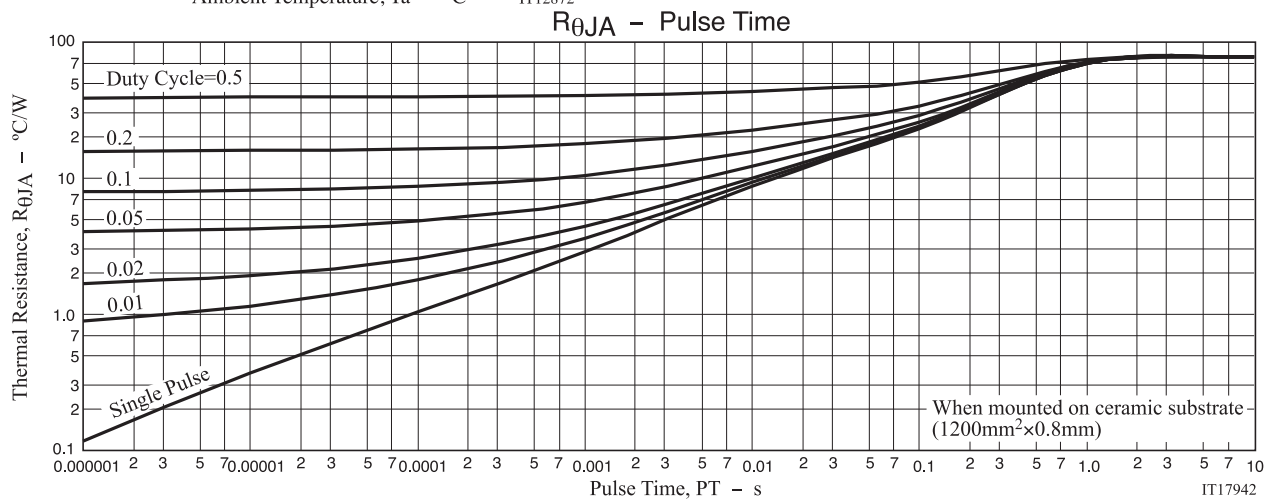
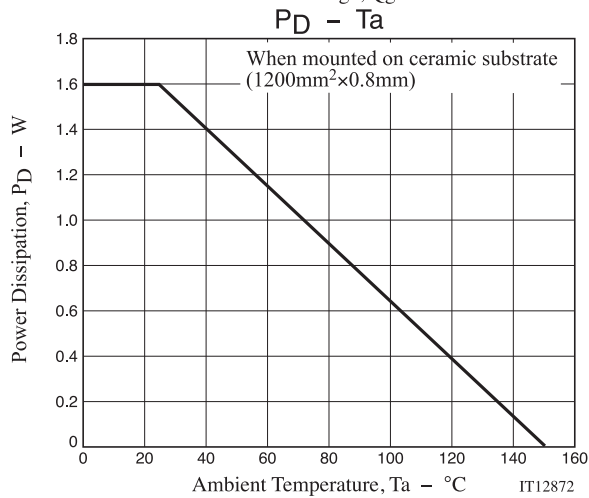
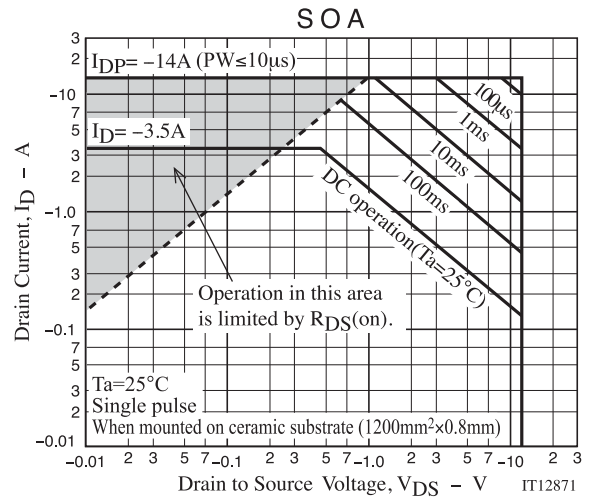
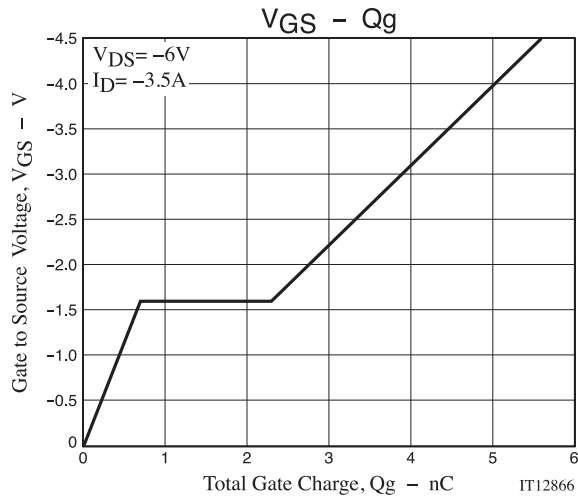
Note 3 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted.
Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Switching Time Test Circuit





CPH6337

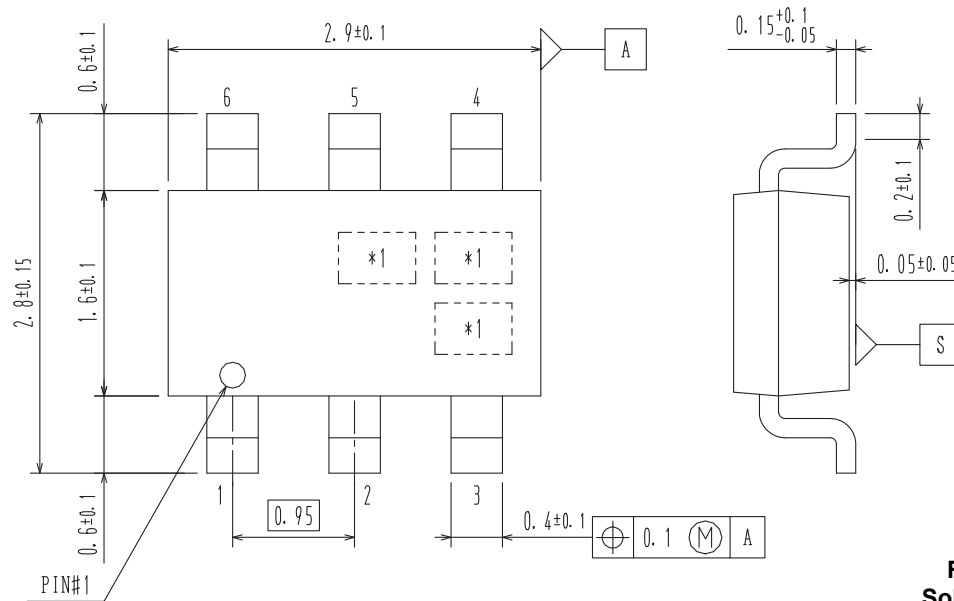


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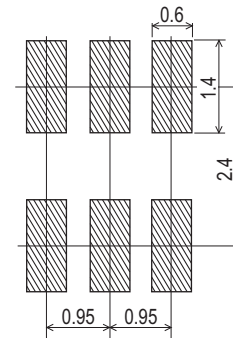
PACKAGE DIMENSIONS

unit : mm

CPH6
CASE 318BD
ISSUE O



Recommended Soldering Footprint



*1: Lot indication

- 1 : Drain
- 2 : Drain
- 3 : Gate
- 4 : Source
- 5 : Drain
- 6 : Drain

ORDERING INFORMATION

Device	Marking	Package	Shipping (Qty / Packing)
CPH6337-TL-E	YP	CPH6 (Pb-Free)	3,000 / Tape & Reel
CPH6337-TL-W		CPH6 (Pb-Free / Halogen Free)	

† For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D. http://www.onsemi.com/pub_link/Collateral/BRD8011-D.PDF

Note on usage : Since the CPH6337 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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