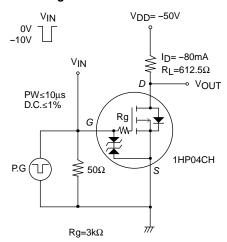
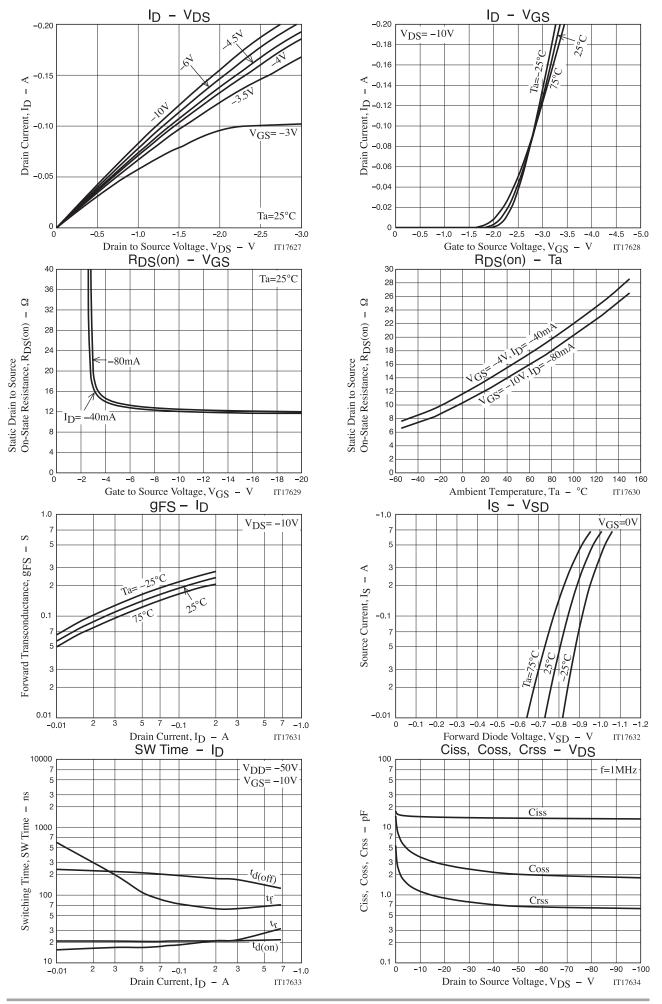
ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 2)

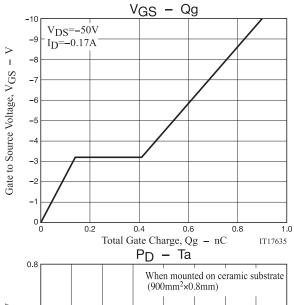
		Value			
Symbol	Conditions				Unit
,		min	typ	max	
V(BR)DSS	I _D =-1mA, V _{GS} =0V	-100			V
IDSS	V _{DS} =-100V, V _{GS} =0V			-1	μΑ
IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μΑ
VGS(th)	V _{DS} =-10V, I _D =-100μA	-1.2		-2.6	V
gFS .	V _{DS} =-10V, I _D =-80mA		170		mS
R _{DS} (on)1	ID=-80mA, VGS=-10V		12.5	18	Ω
R _{DS} (on)2	ID=-40mA, VGS=-4V		14	21	Ω
Ciss			14		pF
Coss	V _{DS} =–20V, f=1MHz		2.8		pF
Crss			0.9		pF
t _d (on)			21		ns
tr	On a supplied Total Cincuit		18		ns
t _d (off)	See specified Test Circuit		200		ns
tf			81		ns
Qg			0.9		nC
Qgs	V _{DS} =-50V, V _{GS} =-10V, I _D =-170mA		0.14		nC
Qgd			0.27		nC
V _{SD}	IS=-170mA, VGS=0V		-0.88	-1.2	٧
	V(BR)DSS IDSS IGSS VGS(th) 9FS RDS(on)1 RDS(on)2 Ciss Coss Crss td(on) tr td(off) tf Qg Qgs Qgd	V(BR)DSS ID=-1mA, VGS=0V IDSS VDS=-100V, VGS=0V IGSS VGS=±16V, VDS=0V VGS(th) VDS=-10V, ID=-100μA gFS VDS=-10V, ID=-80mA RDS(on)1 ID=-80mA, VGS=-10V RDS(on)2 ID=-40mA, VGS=-4V Ciss Coss Coss VDS=-20V, f=1MHz Crss td(on) tr td(off) tf Qg Qgs VDS=-50V, VGS=-10V, ID=-170mA Qgd Qgd	min V(BR)DSS ID=-1mA, VGS=0V -100 IDSS	V(BR)DSS ID=-1mA, VGS=0V -100 IDSS VDS=-100V, VGS=0V IGSS VGS±16V, VDS=0V VGS(th) VDS=-10V, ID=-100μA -1.2 gFS VDS=-10V, ID=-80mA 170 RDS(on)1 ID=-80mA, VGS=-10V 12.5 RDS(on)2 ID=-40mA, VGS=-4V 14 Ciss 14 2.8 Crss 0.9 18 td(on) 21 18 td(off) 81 200 tf 81 0.9 Qg 0.9 0.9 Qgd 0.27	Symbol Conditions min typ max V(BR)DSS ID=-1mA, VGS=0V -100 -100 IDSS VDS=-100V, VGS=0V -1 -1 IGSS VGS±16V, VDS=0V ±10 -2.6 VGS(th) VDS=-10V, ID=-100μA -1.2 -2.6 9FS VDS=-10V, ID=-80mA 170 170 RDS(on)1 ID=-80mA, VGS=-10V 12.5 18 RDS(on)2 ID=-40mA, VGS=-4V 14 21 Ciss 14 21 Coss VDS=-20V, f=1MHz 2.8 -2.8 Crss 0.9 -9 td(on) 21 -1 tf 81 -1 Qg 0.9 0.9 Qgs VDS=-50V, VGS=-10V, ID=-170mA 0.14 Qgd 0.27

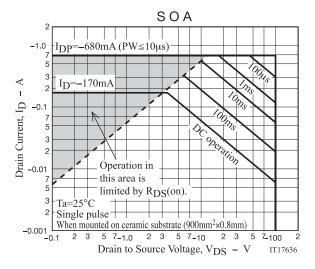
Note 2 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

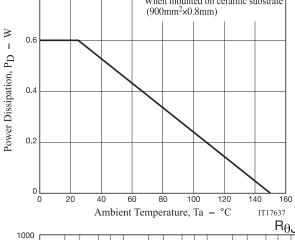
Switching Time Test Circuit

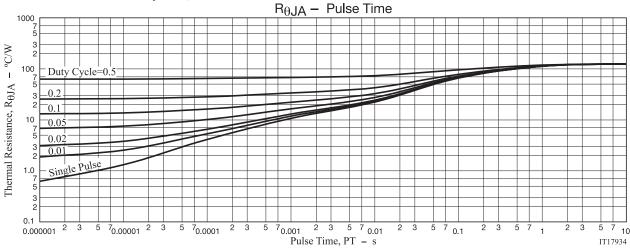






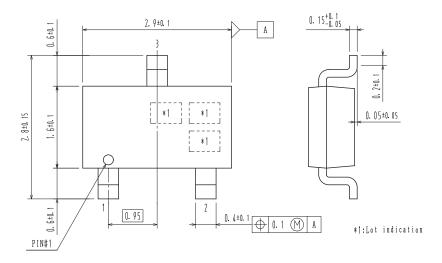






PACKAGE DIMENSIONS

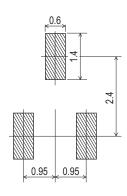
unit: mm CPH3 CASE 318BA ISSUE O



0.0 420.05

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

Recommended Soldering Footprint



ORDERING INFORMATION

Device	Marking	Package	Shipping (Qty / Packing)
1HP04CH-TL-W	wx	CPH3 SC-59, SOT-23, TO-236 (Pb-Free / Halogen Free)	3,000 / Tape & Reel

[†] 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 1HP04CH is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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