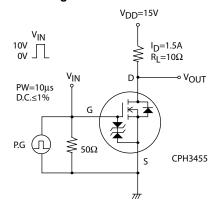
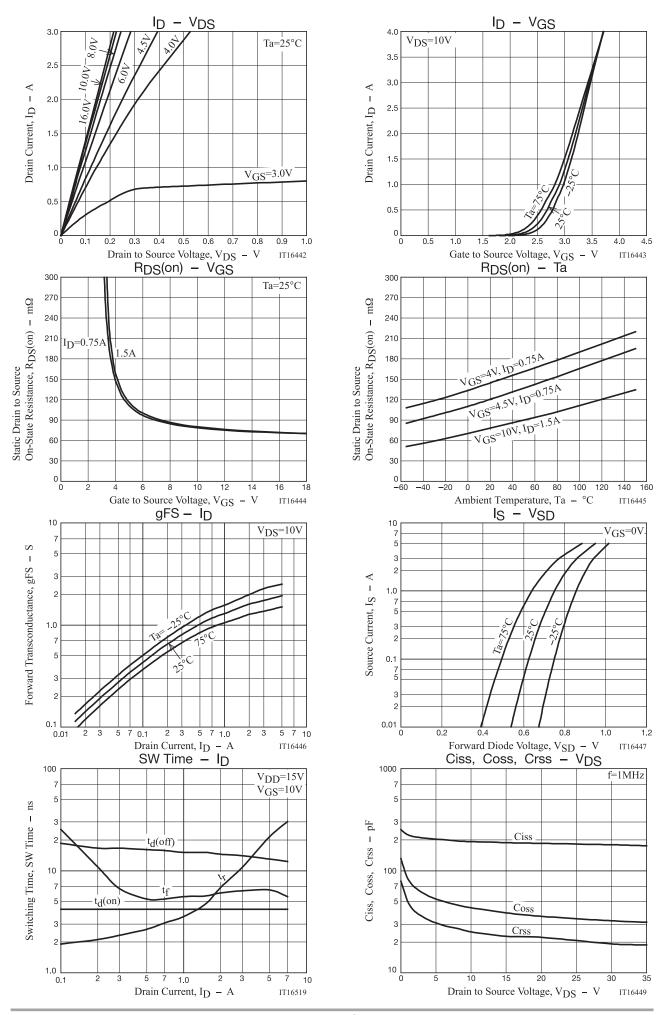
ELECTRICAL CHARACTERISTICS at $Ta = 25^{\circ}C$ (Note 3)

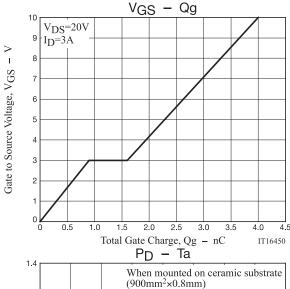
Parameter	Symbol	Conditions	Value			Unit
Parameter		Conditions	min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	35			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =35V, V _{GS} =0V			1	μΑ
Gate to Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μΑ
Gate Threshold Voltage	VGS(th)	V _{DS} =10V, I _D =1mA	1.2		2.6	V
Forward Transconductance	gFS	V _{DS} =10V, I _D =1.5A		1.7		S
Static Drain to Source On-State Resistance	R _{DS} (on)1	I _D =1.5A, V _{GS} =10V		80	104	mΩ
	R _{DS} (on)2	ID=0.75A, VGS=4.5V		123	173	mΩ
	RDS(on)3	I _D =0.75A, V _{GS} =4V		148	208	mΩ
Input Capacitance	Ciss			186		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		36		pF
Reverse Transfer Capacitance	Crss			22		pF
Turn-ON Delay Time	t _d (on)			4.2		ns
Rise Time	t _r	On a supplied Took Observit		4.7		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit		15		ns
Fall Time	tf			5.7		ns
Total Gate Charge	Qg			4		nC
Gate to Source Charge	Qgs	V _{DS} =20V, V _{GS} =10V, I _D =3A		0.9		nC
Gate to Drain "Miller" Charge	Qgd			0.7		nC
Forward Diode Voltage	V _{SD}	IS=3A, VGS=0V		0.86	1.2	V

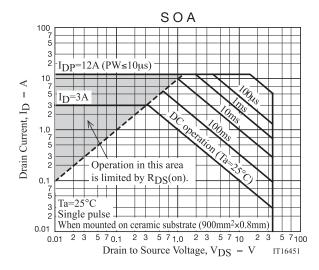
Note 3 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

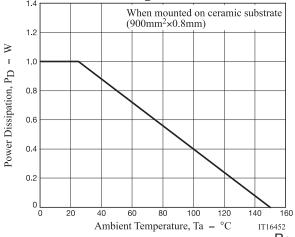
Switching Time Test Circuit

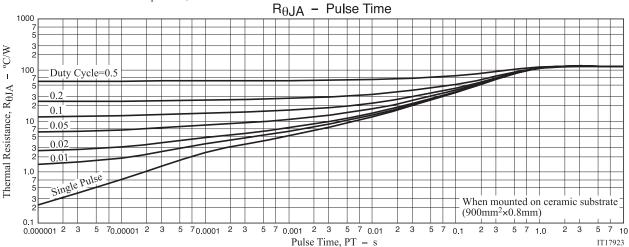






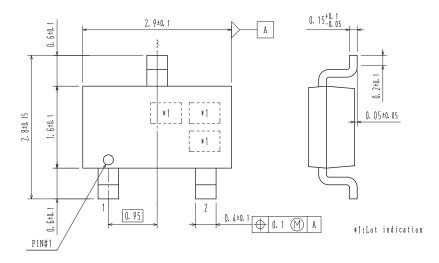






PACKAGE DIMENSIONS

Unit: mm CPH3 CASE 318BA ISSUE O



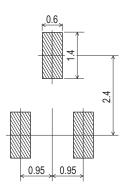
0.7

1 : Gate

2 : Source

3: Drain

Recommended Soldering Footprint



ORDERING INFORMATION

Device	Marking	Package	Shipping (Qty / Packing)	
CPH3455-TL-H	LM	CPH3	3,000 / Tape & Reel	
CPH3455-TL-W	LIVI	SC-59, SOT-23, TO-236 (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 CPH3455 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

ON Semiconductor and the ON logo are registered trademarks of Semiconductor Components Industries, LLC (SCILLC) or its subsidiaries in the United States and/or other countries. SCILLC owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of SCILLC's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent re