

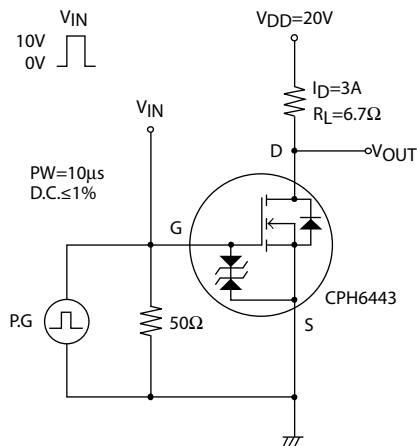
CPH6443

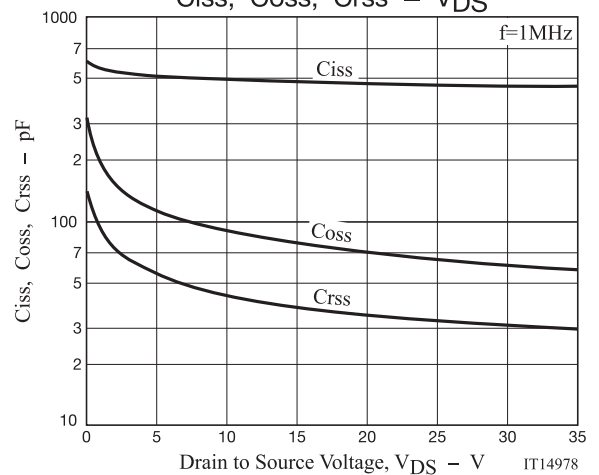
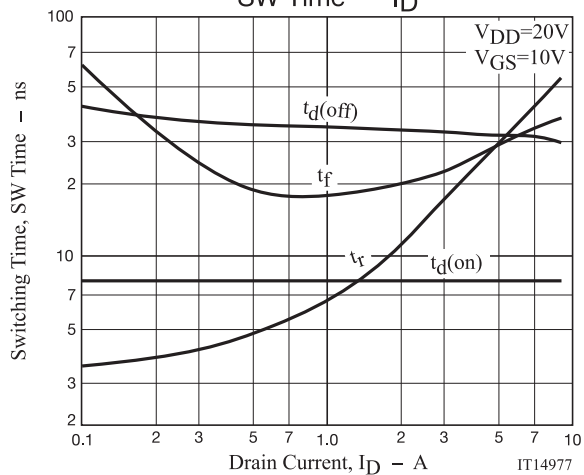
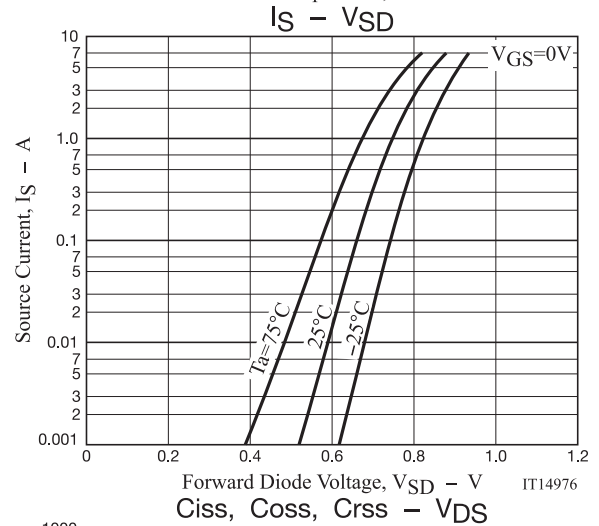
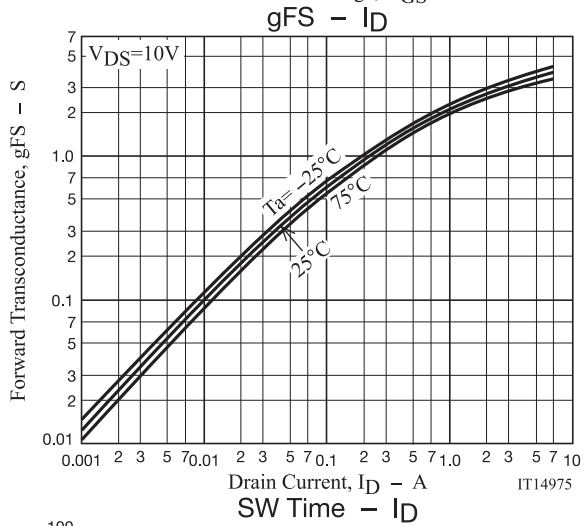
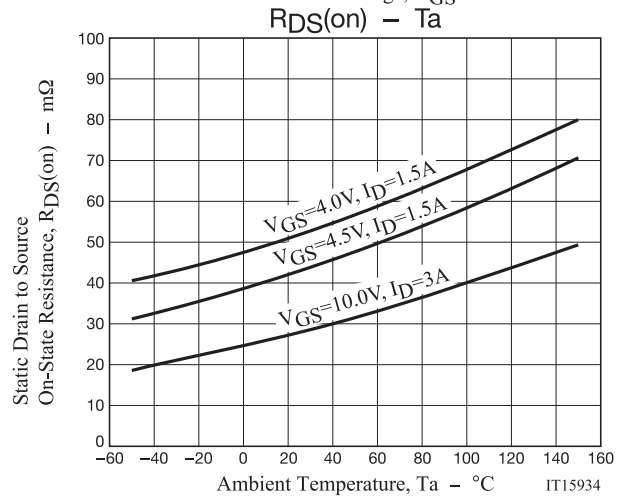
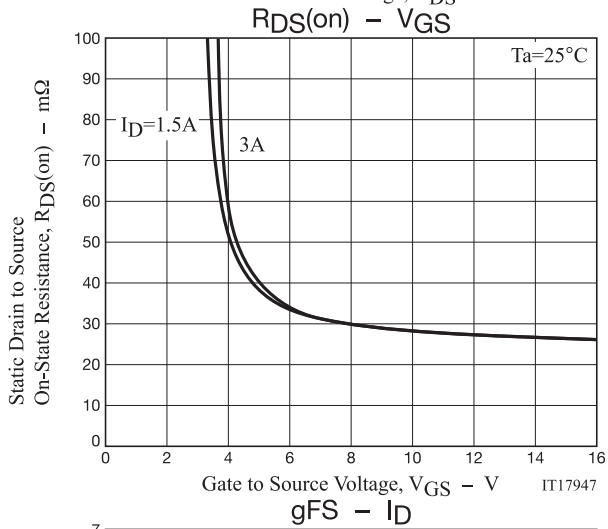
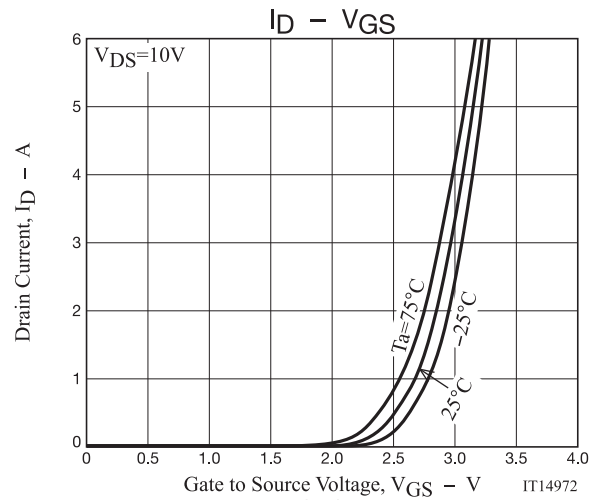
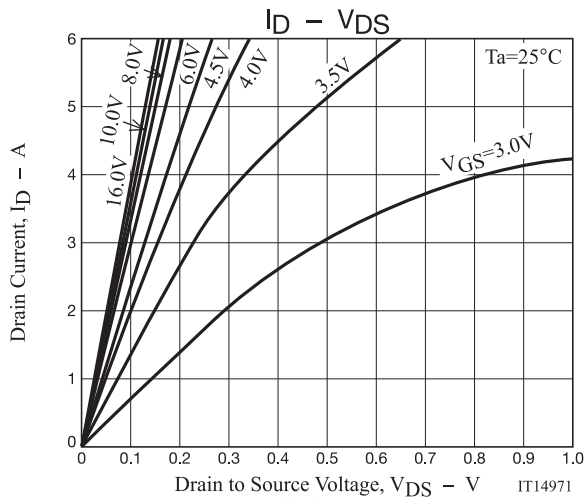
ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 2)

Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Drain to Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	35			V
Zero-Gate Voltage Drain Current	IDSS	VDS=35V, VGS=0V			1	μA
Gate to Source Leakage Current	IGSS	VGS=±16V, VDS=0V			±10	μA
Gate Threshold Voltage	VGS(th)	VDS=10V, ID=1mA	1.2		2.6	V
Forward Transconductance	gFS	VDS=10V, ID=3A		2.9		S
Static Drain to Source On-State Resistance	RDS(on)1	ID=3A, VGS=10V		28	37	mΩ
	RDS(on)2	ID=1.5A, VGS=4.5V		43	61	mΩ
	RDS(on)3	ID=1.5A, VGS=4V		52	73	mΩ
Input Capacitance	Ciss	VDS=20V, f=1MHz		470		pF
Output Capacitance	Coss			70		pF
Reverse Transfer Capacitance	Crss			35		pF
Turn-ON Delay Time	td(on)	See specified Test Circuit		8		ns
Rise Time	tr			17		ns
Turn-OFF Delay Time	td(off)			32		ns
Fall Time	tf			22		ns
Total Gate Charge	Qg	VDS=20V, VGS=10V, ID=6A		10		nC
Gate to Source Charge	Qgs			2		nC
Gate to Drain "Miller" Charge	Qgd			2		nC
Forward Diode Voltage	VSD	IS=6A, VGS=0V		0.84	1.2	V

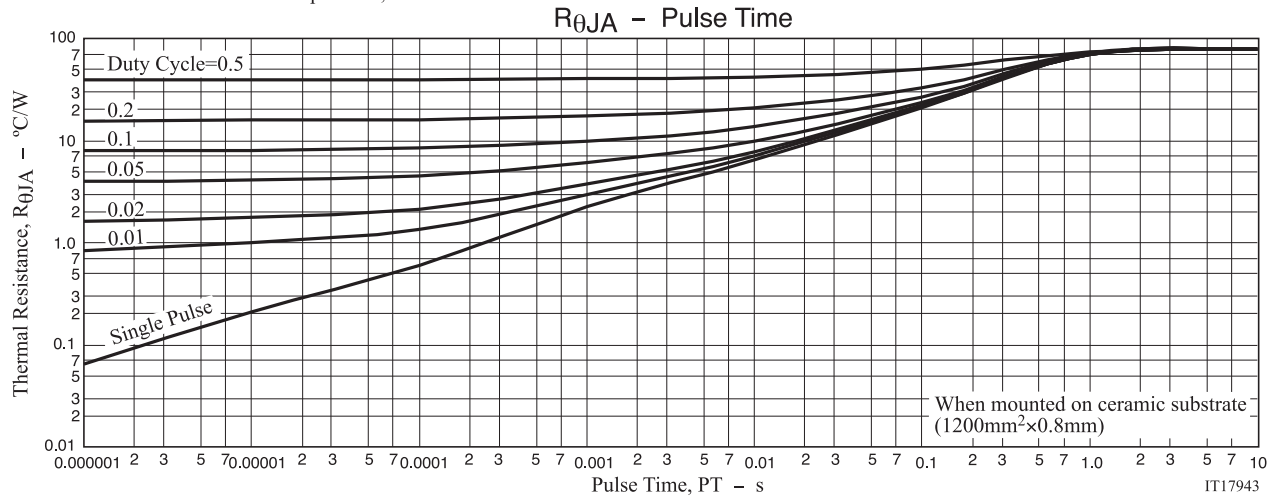
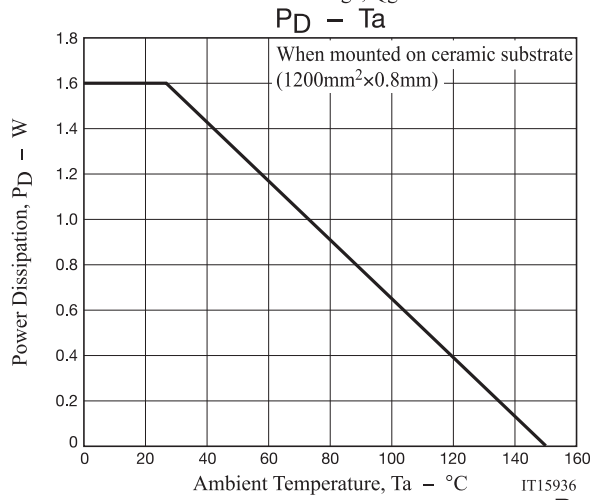
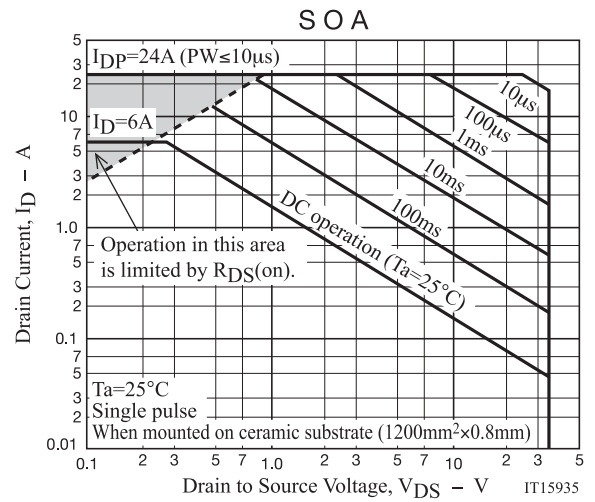
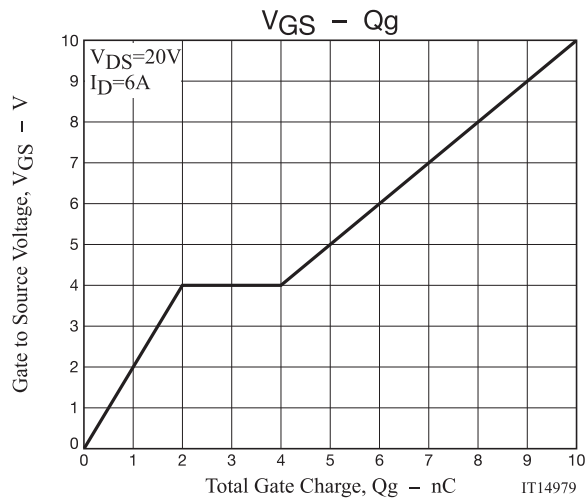
Note 2 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted.
Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Switching Time Test Circuit





CPH6443



CPH6443

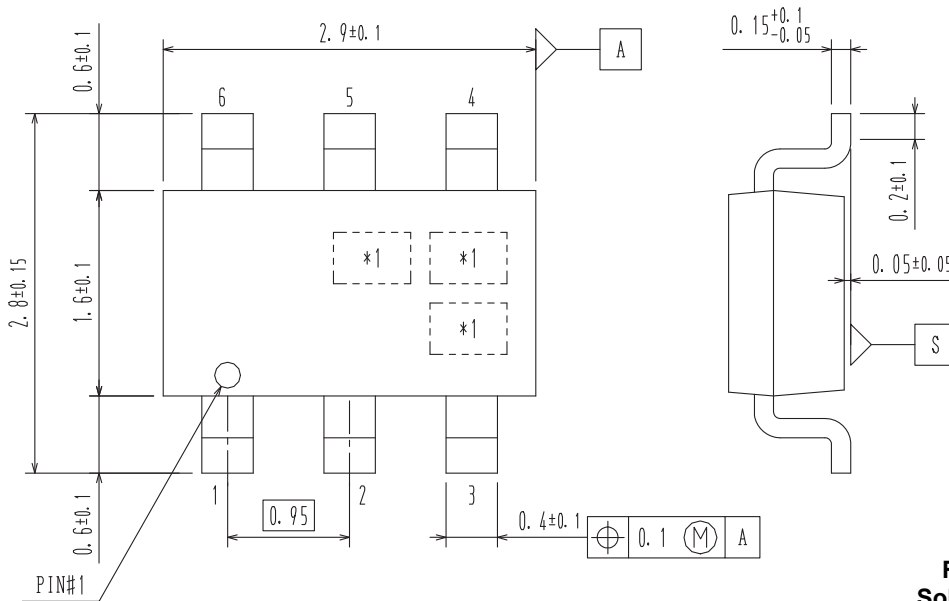
PACKAGE DIMENSIONS

unit : mm

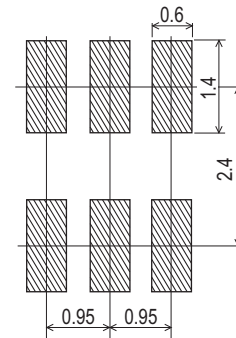
CPH6

CASE 318BD

ISSUE O

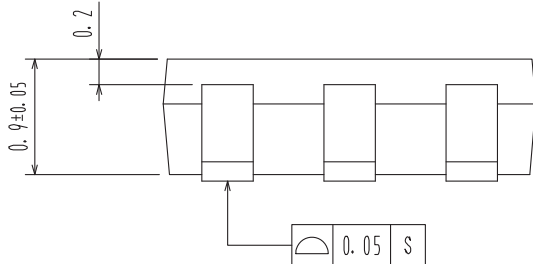


Recommended Soldering Footprint



*1: Lot indication

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



ORDERING INFORMATION

Device	Marking	Package	Shipping (Qty / Packing)
CPH6443-TL-H	ZV	CPH6 (Pb-Free / Halogen Free)	3,000 / Tape & Reel
CPH6443-TL-W			

† 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 CPH6443 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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