

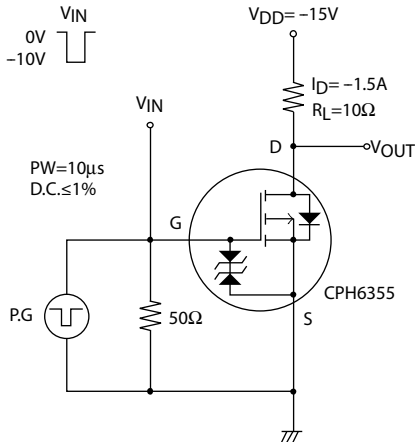
CPH6355

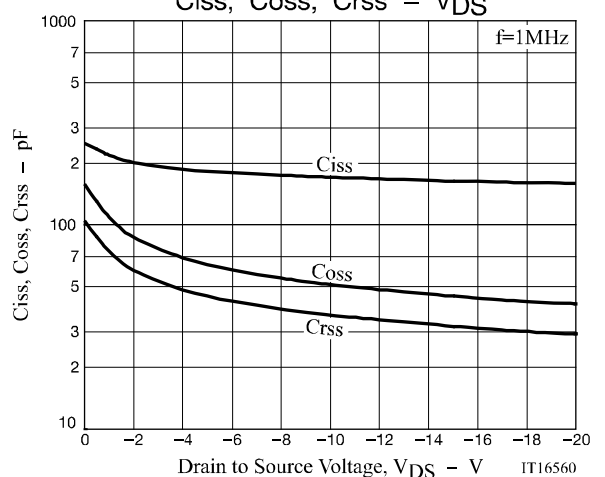
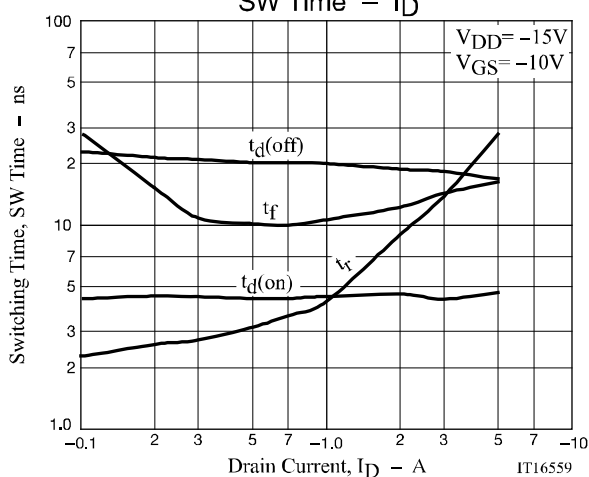
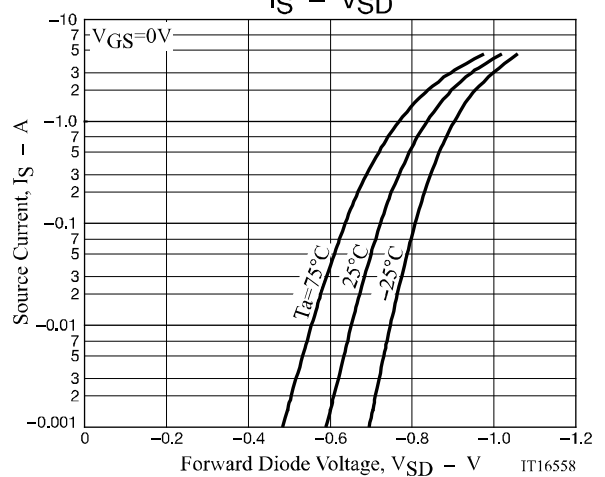
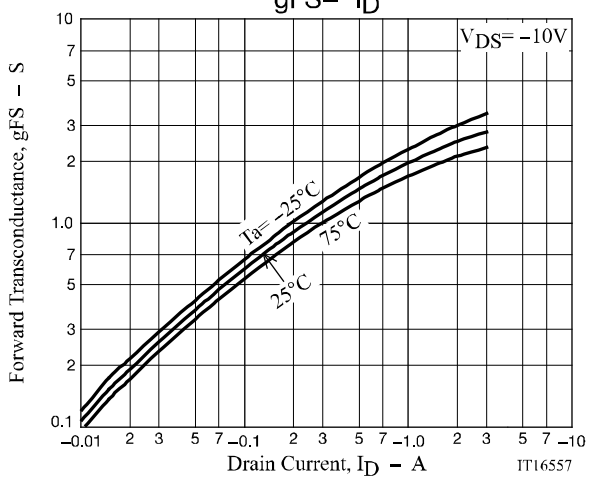
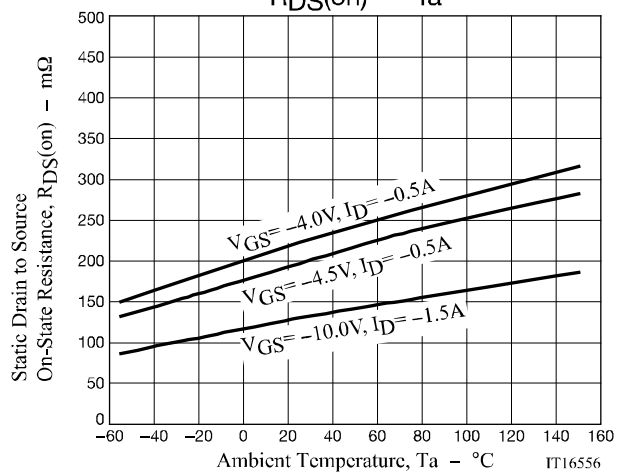
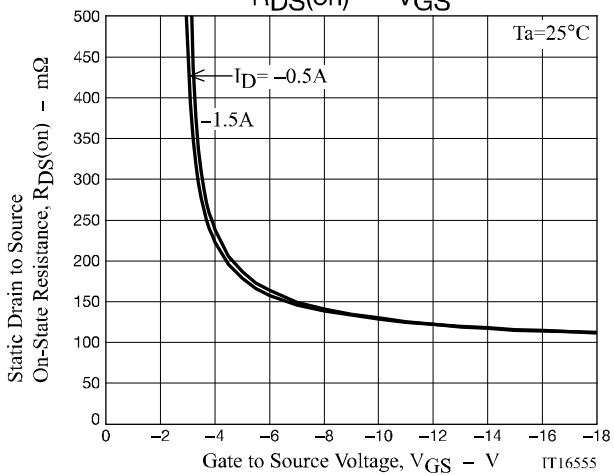
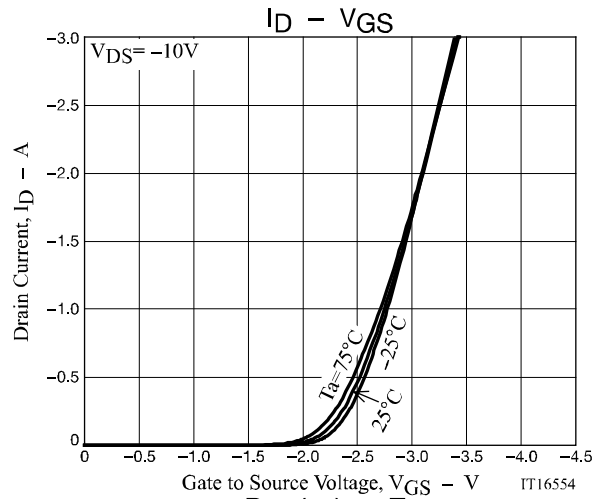
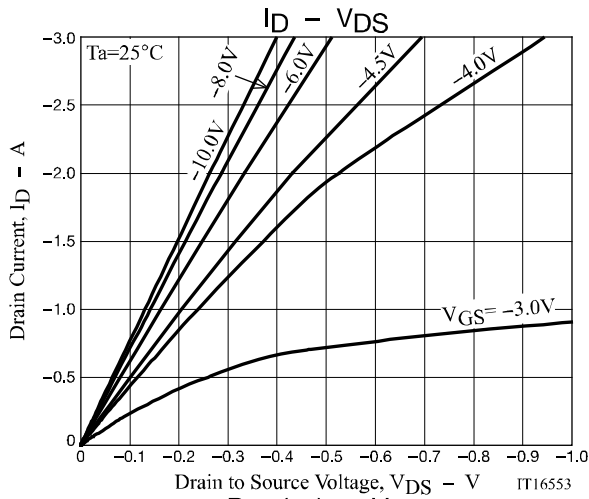
Electrical Characteristics at $T_a = 25^\circ\text{C}$

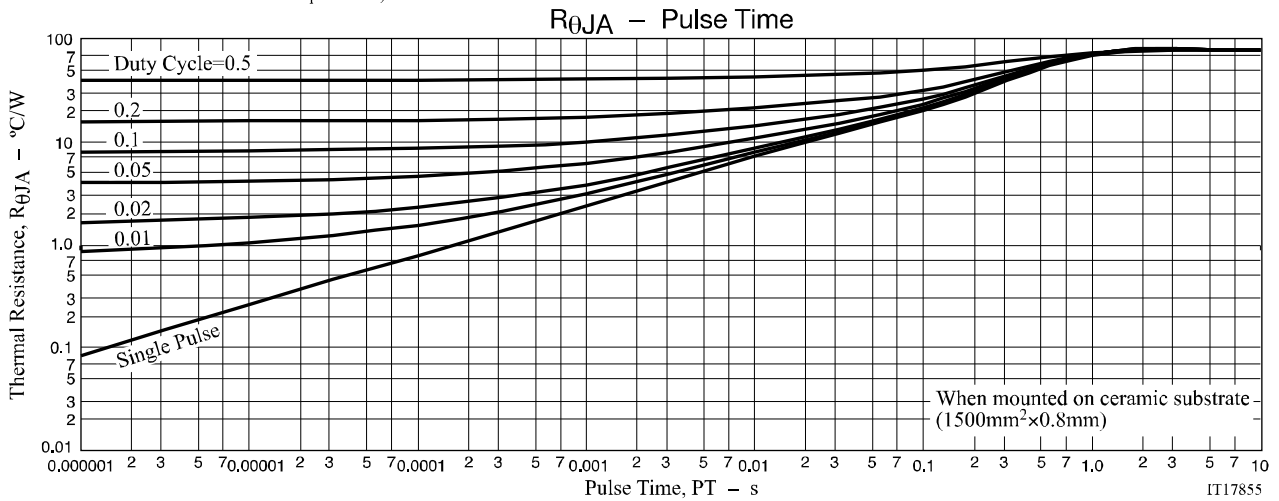
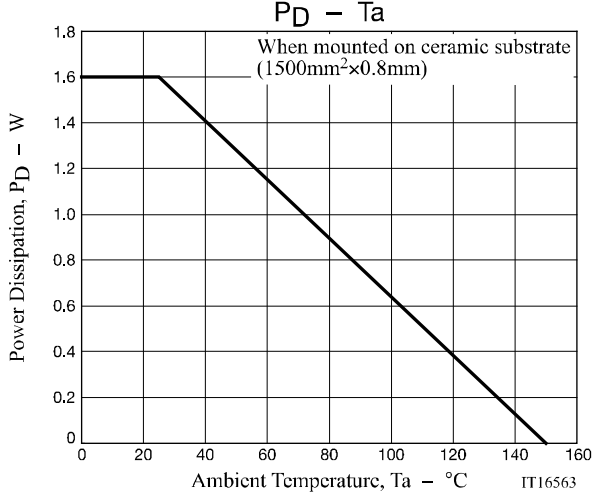
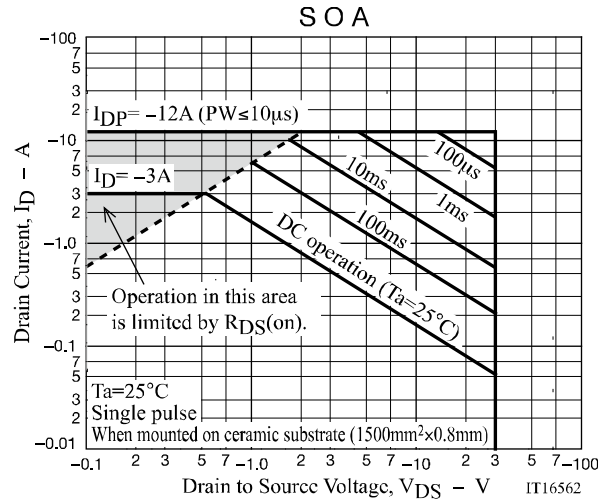
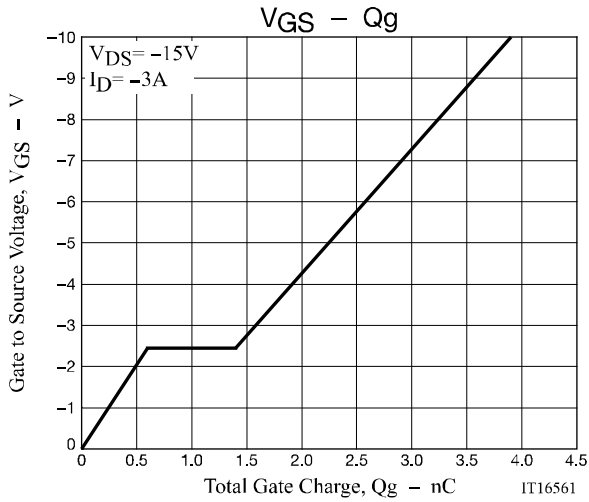
Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Drain to Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D = -1\text{mA}$, $V_{GS} = 0\text{V}$	-30			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -30\text{V}$, $V_{GS} = 0\text{V}$			-1	μA
Gate to Source Leakage Current	I_{GSS}	$V_{GS} = \pm 16\text{V}$, $V_{DS} = 0\text{V}$			± 10	μA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = -10\text{V}$, $I_D = -1\text{mA}$	-1.2		-2.6	V
Forward Transconductance	g_{FS}	$V_{DS} = -10\text{V}$, $I_D = -1.5\text{A}$		2.3		S
Static Drain to Source On-State Resistance	$R_{DS(on)1}$	$I_D = -1.5\text{A}$, $V_{GS} = -10\text{V}$		130	169	$\text{m}\Omega$
	$R_{DS(on)2}$	$I_D = -0.5\text{A}$, $V_{GS} = -4.5\text{V}$		197	276	$\text{m}\Omega$
	$R_{DS(on)3}$	$I_D = -0.5\text{A}$, $V_{GS} = -4\text{V}$		223	313	$\text{m}\Omega$
Input Capacitance	C_{iss}	$V_{DS} = -10\text{V}$, $f = 1\text{MHz}$		172		pF
Output Capacitance	C_{oss}			51		pF
Reverse Transfer Capacitance	C_{rss}			36		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit		4.6		ns
Rise Time	t_r			6.6		ns
Turn-OFF Delay Time	$t_{d(off)}$			19.4		ns
Fall Time	t_f			11.4		ns
Total Gate Charge	Q_g	$V_{DS} = -15\text{V}$, $V_{GS} = -10\text{V}$, $I_D = -3\text{A}$		3.9		nC
Gate to Source Charge	Q_{gs}			0.6		nC
Gate to Drain "Miller" Charge	Q_{gd}			0.8		nC
Forward Diode Voltage	V_{SD}	$I_S = -3\text{A}$, $V_{GS} = 0\text{V}$		-0.95	-1.5	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.

Switching Time Test Circuit







Package Dimensions

CPH6355-TL-H / CPH6355-TL-W

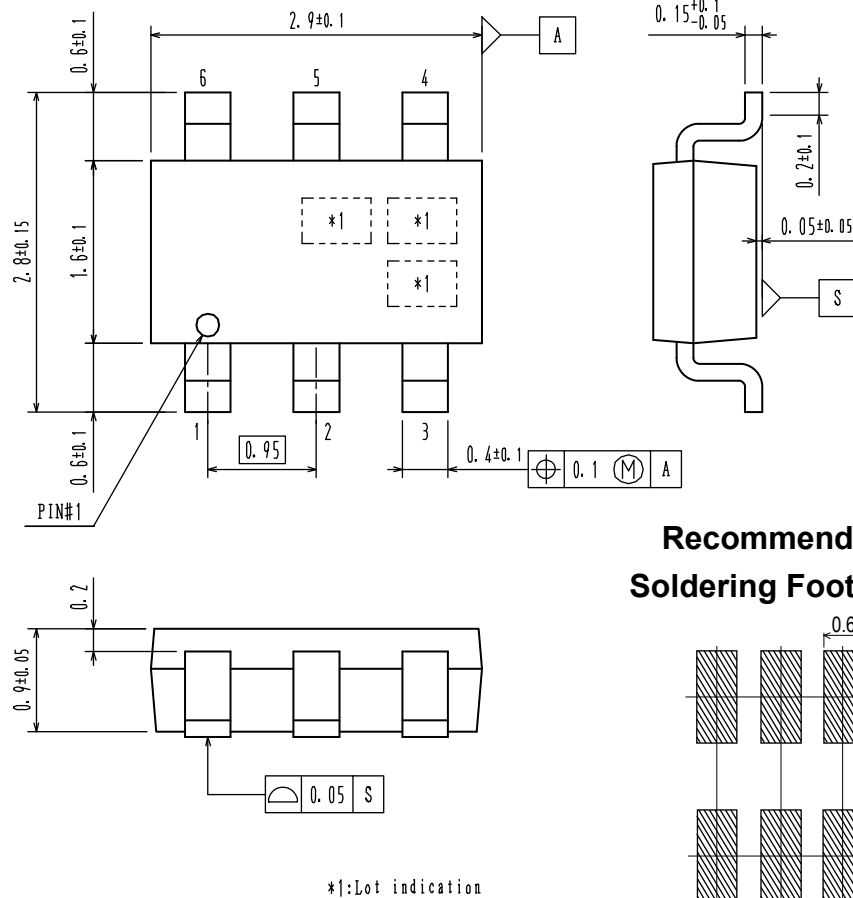
CPH6

CASE 318BD

ISSUE O

Unit : mm

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



Recommended Soldering Footprint

ORDERING INFORMATION

Device	Package	Shipping	Note
CPH6355-TL-H	CPH6, SC-74 SOT-26, SOT-457	3,000 pcs. / Tape & Reel	Pb-Free and Halogen Free
CPH6355-TL-W			

Note on usage : Since the CPH6355 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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