

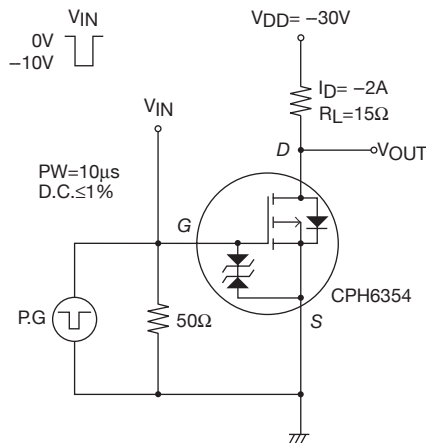
CPH6354

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =-1mA, V _{GS} =0V	-60			V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =-60V, V _{GS} =0V			-1	μA
Gate-to-Source Leakage Current	I _{GSS}	V _{GS} =±16V, V _{DS} =0V			±10	μA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =-10V, I _D =-1mA	-1.2		-2.6	V
Forward Transconductance	g _{FS}	V _{DS} =-10V, I _D =-2A		4.8		S
Static Drain-to-Source On-State Resistance	R _{DS(on)1}	I _D =-2A, V _{GS} =-10V		77	100	mΩ
	R _{DS(on)2}	I _D =-1A, V _{GS} =-4.5V		96	135	mΩ
	R _{DS(on)3}	I _D =-1A, V _{GS} =-4V		103	145	mΩ
Input Capacitance	C _{iss}			600		pF
Output Capacitance	C _{oss}	V _{DS} =-20V, f=1MHz		60		pF
Reverse Transfer Capacitance	C _{rss}			50		pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit.		5.8		ns
Rise Time	t _r			12		ns
Turn-OFF Delay Time	t _{d(off)}			78		ns
Fall Time	t _f			40		ns
Total Gate Charge	Q _g				14	
Gate-to-Source Charge	Q _{gs}	V _{DS} =-30V, V _{GS} =-10V, I _D =-4A		1.6		nC
Gate-to-Drain "Miller" Charge	Q _{gd}			3.4		nC
Forward Diode Voltage	V _{SD}		I _S =-4A, V _{GS} =0V		-0.84	-1.2

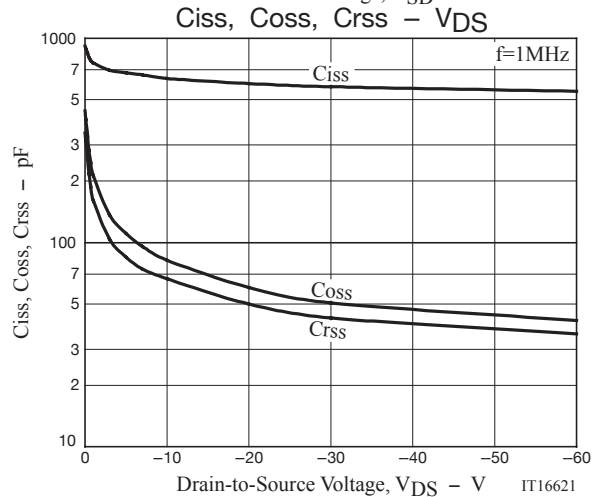
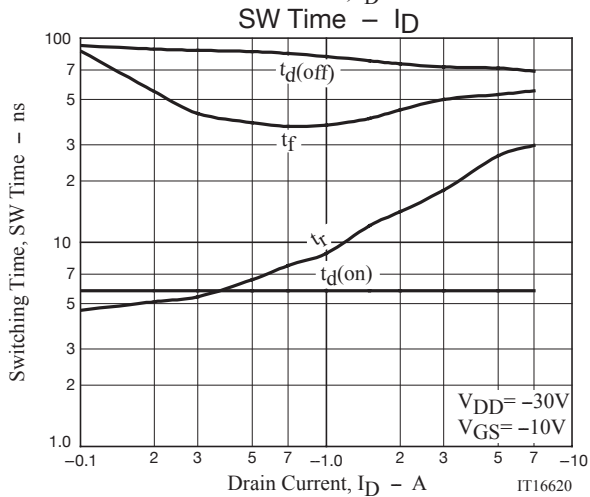
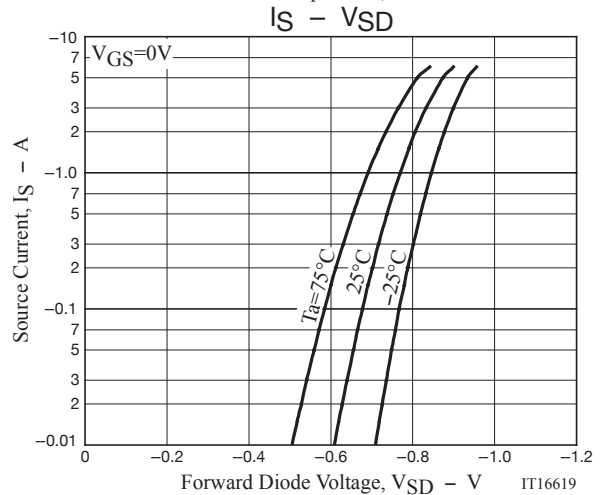
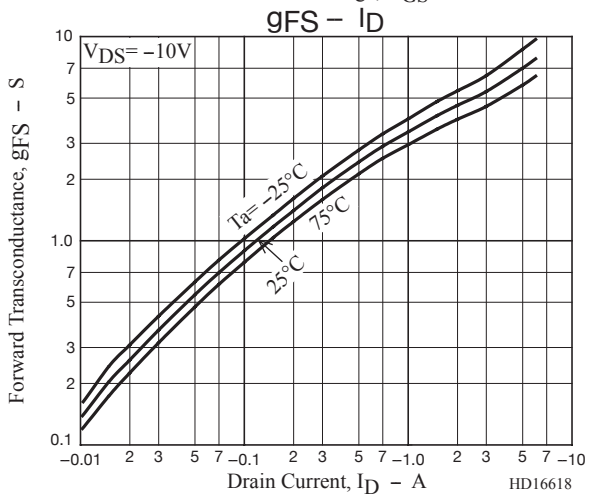
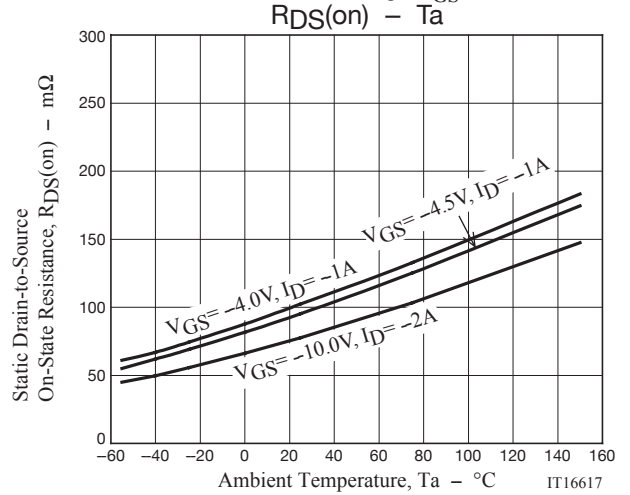
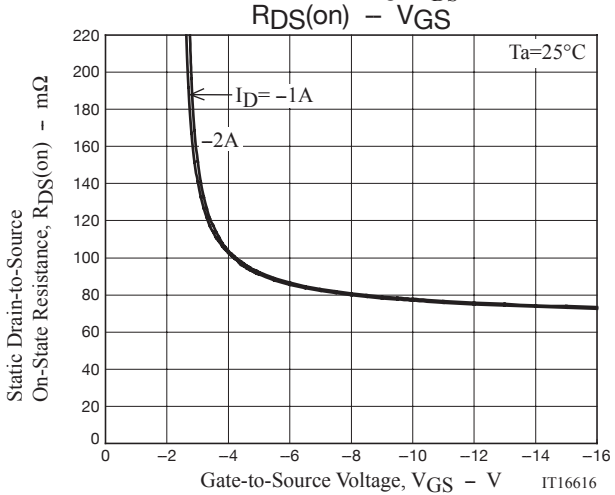
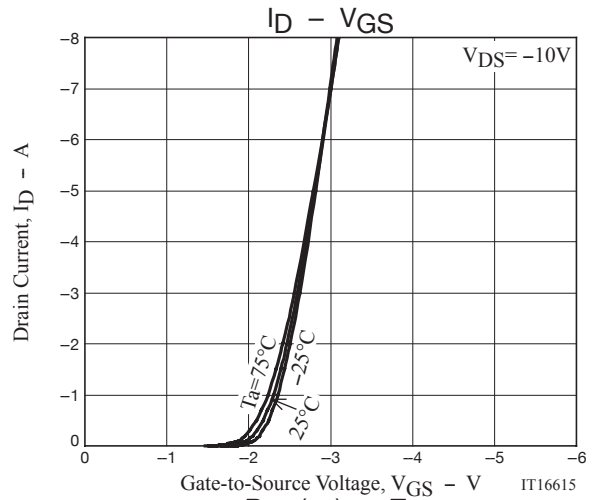
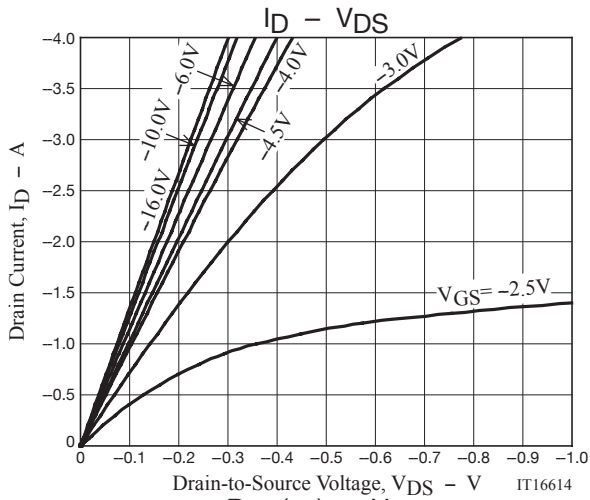
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

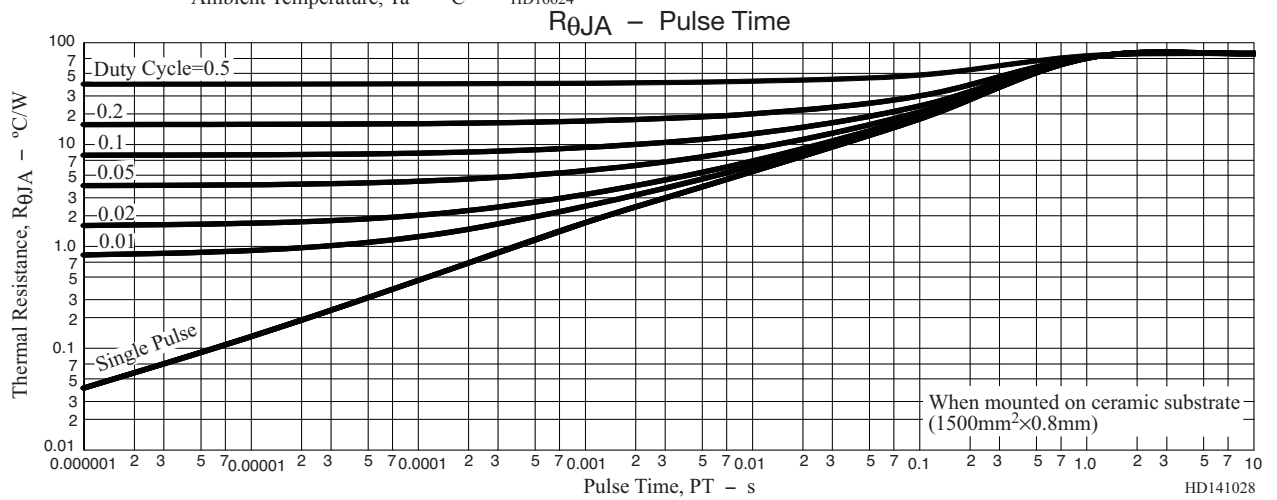
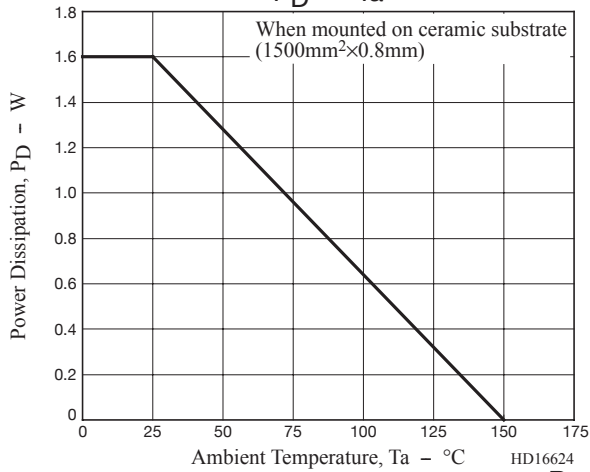
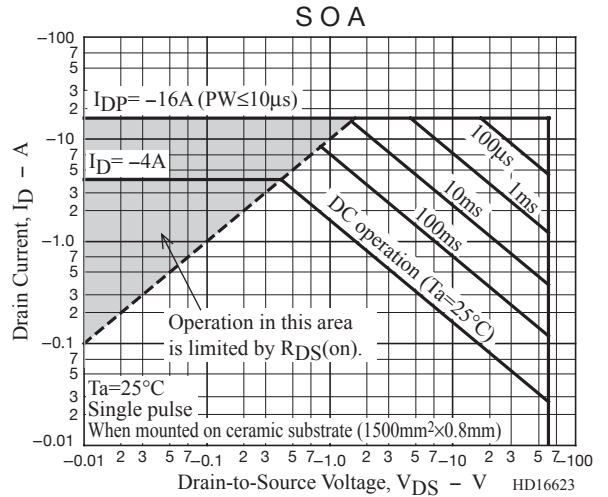
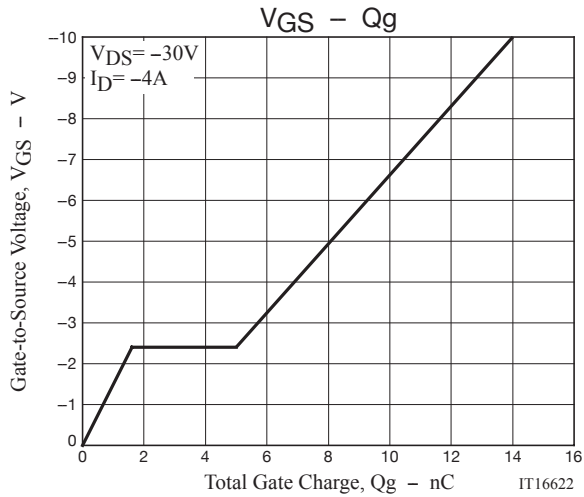
Switching Time Test Circuit



ORDERING INFORMATION

Device	Package	Shipping	memo
CPH6354-TL-H	CPH6	3,000pcs./reel	Pb-Free and Halogen Free
CPH6354-TL-W			

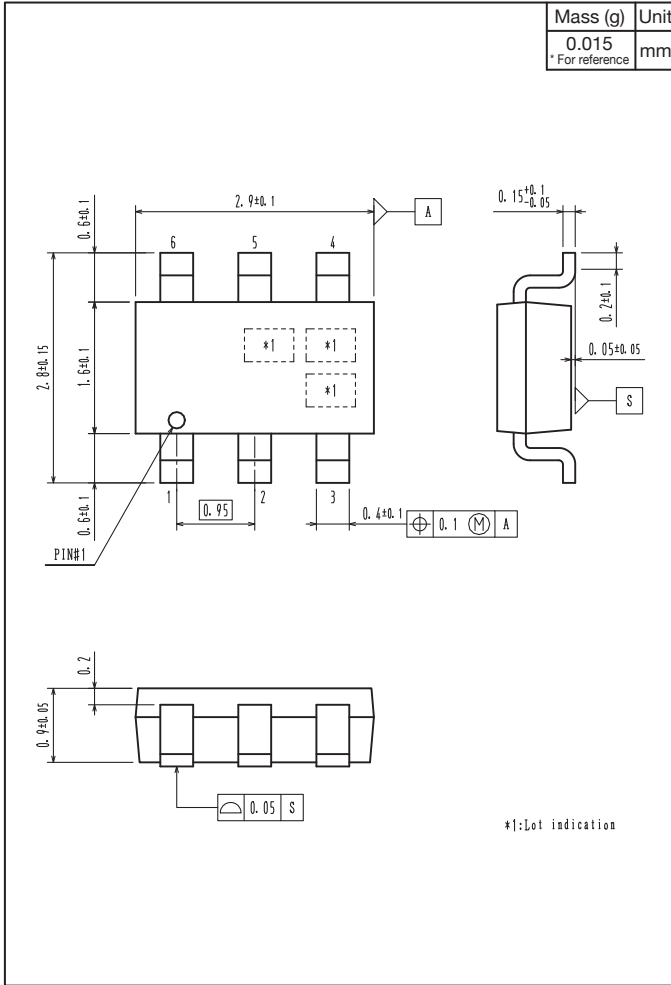




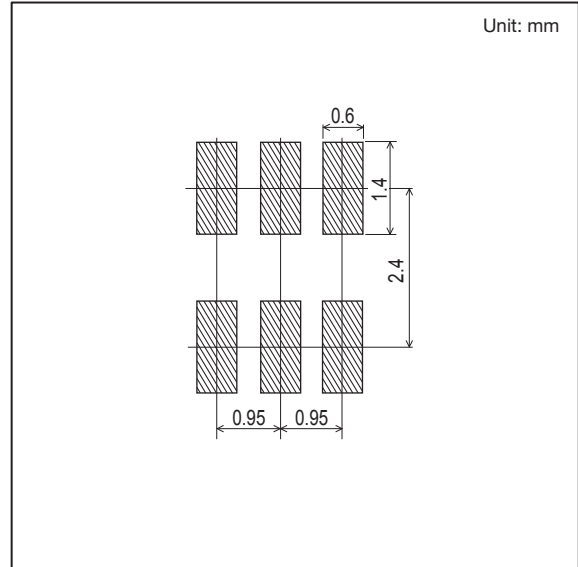
CPH6354

Outline Drawing

CPH6354-TL-H, CPH6354-TL-W



Land Pattern Example



Note on usage : Since the CPH6354 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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