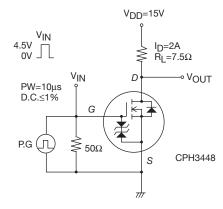
CPH3448

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Lloit
Parameter		Conditions	min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _G S=0V	30			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =30V, V _{GS} =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±8V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1mA 0.4			1.3	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =2A		3.4		S
Static Drain-to-Source On-State Resistance	RDS(on)1	ID=2A, VGS=4.5V		38	50	mΩ
	R _{DS} (on)2	I _D =1A, V _{GS} =2.5V		51	72	mΩ
	R _{DS} (on)3	I _D =0.5A, V _G S=1.8V		80	130	mΩ
Input Capacitance	Ciss	V _{DS} =10V, f=1MHz		430		pF
Output Capacitance	Coss	V _{DS} =10V, f=1MHz		59		pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, f=1MHz	f=1MHz			pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit.				ns
Rise Time	t _r	See specified Test Circuit.				ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.				ns
Fall Time	tf	See specified Test Circuit.	specified Test Circuit. 37			ns
Total Gate Charge	Qg	V _{DS} =15V, V _{GS} =4.5V, I _D =4A	S=4.5V, I _D =4A 4.7			nC
Gate-to-Source Charge	Qgs	V _{DS} =15V, V _{GS} =4.5V, I _D =4A 0.8			nC	
Gate-to-Drain "Miller" Charge	Qgd	V _{DS} =15V, V _{GS} =4.5V, I _D =4A 1.1			nC	
Diode Forward Voltage	V _{SD}	I _S =4A, V _{GS} =0V		0.82	1.2	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.

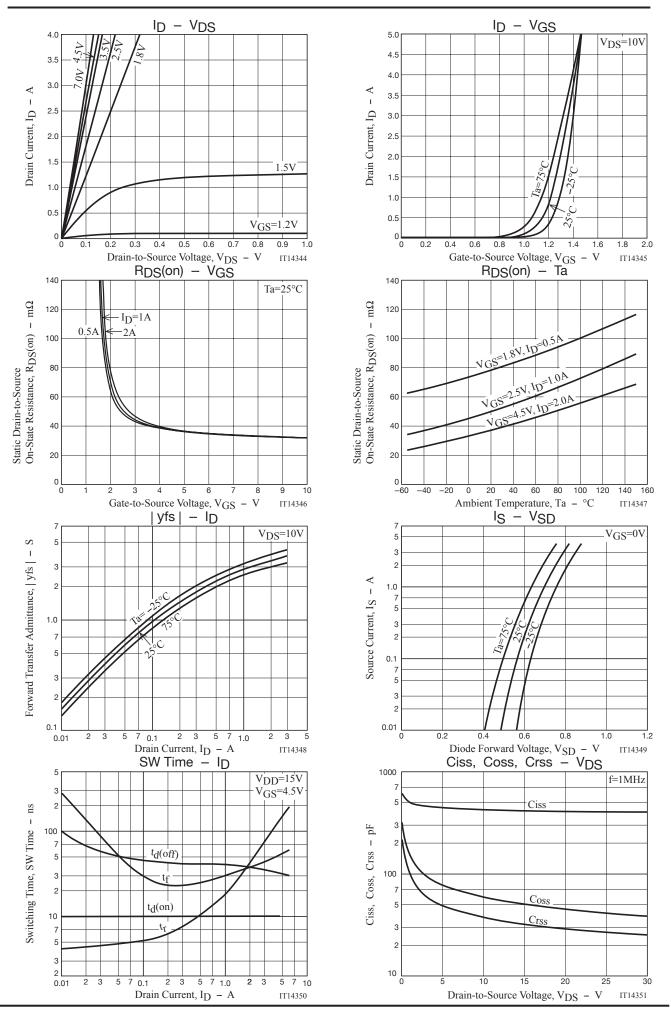
Switching Time Test Circuit

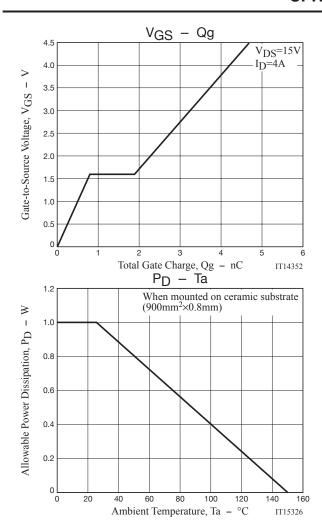


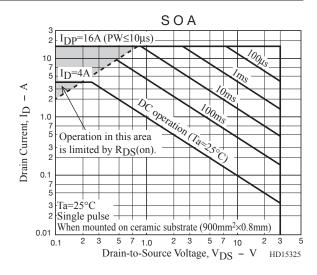
Ordering Information

Device	Package	Shipping	memo	
CPH3448-TL-H	CPH3	3,000pcs./reel	Pb-Free and Halogen Free	
CPH3448-TL-W	CPH3			

No. A1648-2/5





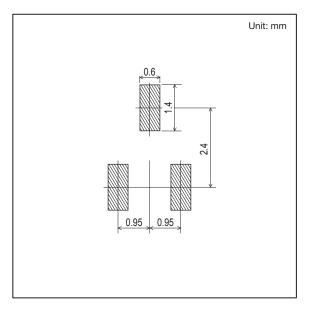


Outline Drawing

CPH3448-TL-H, CPH3448-TL-W

Mass (g) Unit O.013 For reference mm O.15^{+6.1} O.0540.05 PIN#1 A D.1 (Mass) O.15^{+6.1} O.15

Land Pattern Example



Note on usage: Since the CPH3448 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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