

CPH6615

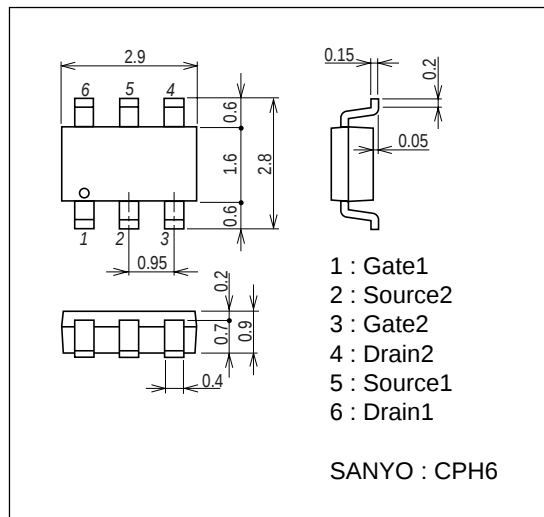
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit.		7.8		ns
Rise Time	t_r	See specified Test Circuit.		18.5		ns
Turn-OFF Delay Time	$t_{d(off)}$	See specified Test Circuit.		22		ns
Fall Time	t_f	See specified Test Circuit.		12		ns
Total Gate Charge	Q_g	$V_{DS}=10V, V_{GS}=10V, I_D=2.5A$		5.2		nC
Gate-to-Source Charge	Q_{gs}	$V_{DS}=10V, V_{GS}=10V, I_D=2.5A$		1		nC
Gate-to-Drain "Miller" Charge	Q_{gd}	$V_{DS}=10V, V_{GS}=10V, I_D=2.5A$		0.97		nC
Diode Forward Voltage	V_{SD}	$I_S=2.5A, V_{GS}=0$		0.9	1.2	V
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Drain-to-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D=-1mA, V_{GS}=0$	-30			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS}=-30V, V_{GS}=0$			-1	μA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS}=\pm 16V, V_{DS}=0$			± 10	μA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS}=-10V, I_D=-1mA$	-1.2		-2.6	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=-10V, I_D=-1A$	1.1	1.8		S
Static Drain-to-Source On-State Resistance	$R_{DS(on)1}$	$I_D=-1A, V_{GS}=-10V$		180	235	$m\Omega$
	$R_{DS(on)2}$	$I_D=-0.5A, V_{GS}=-4V$		320	450	$m\Omega$
Input Capacitance	C_{iss}	$V_{DS}=-10V, f=1MHz$		226		pF
Output Capacitance	C_{oss}	$V_{DS}=-10V, f=1MHz$		43		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS}=-10V, f=1MHz$		36		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit.		8.5		ns
Rise Time	t_r	See specified Test Circuit.		10.5		ns
Turn-OFF Delay Time	$t_{d(off)}$	See specified Test Circuit.		29		ns
Fall Time	t_f	See specified Test Circuit.		22		ns
Total Gate Charge	Q_g	$V_{DS}=-10V, V_{GS}=-10V, I_D=-1.8A$		5.5		nC
Gate-to-Source Charge	Q_{gs}	$V_{DS}=-10V, V_{GS}=-10V, I_D=-1.8A$		1		nC
Gate-to-Drain "Miller" Charge	Q_{gd}	$V_{DS}=-10V, V_{GS}=-10V, I_D=-1.8A$		0.97		nC
Diode Forward Voltage	V_{SD}	$I_S=-1.8A, V_{GS}=0$		-0.91	-1.5	V

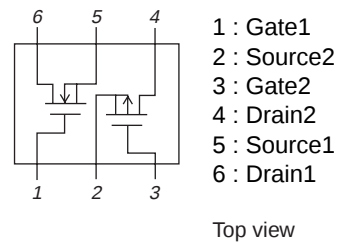
Package Dimensions

unit : mm

2238

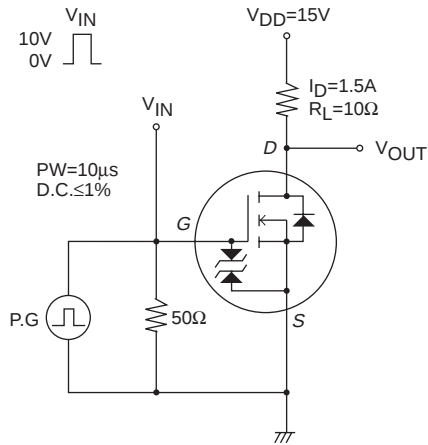


Electrical Connection

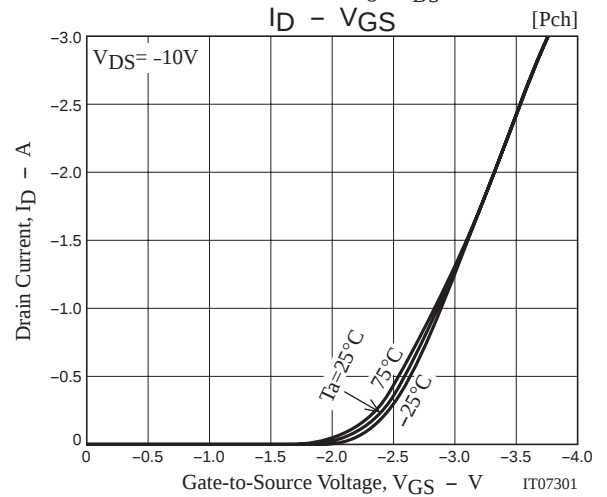
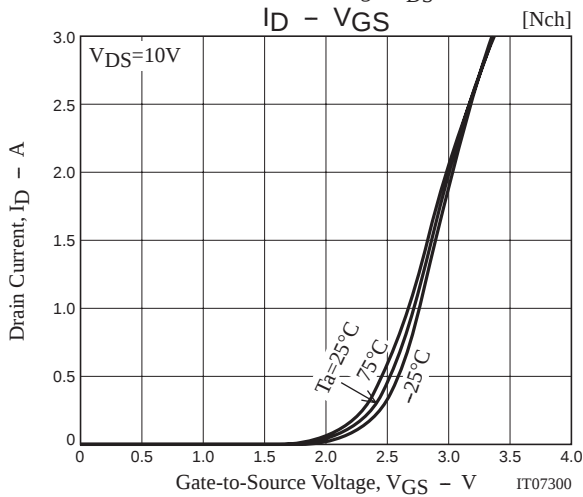
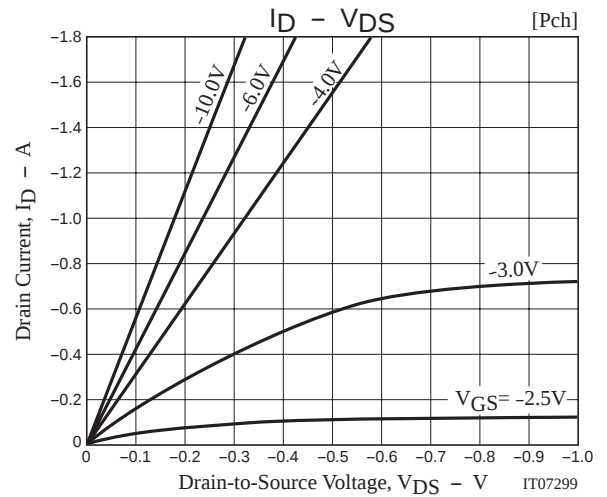
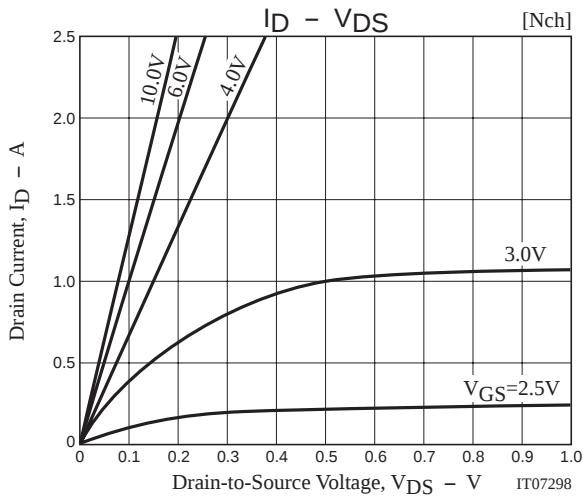
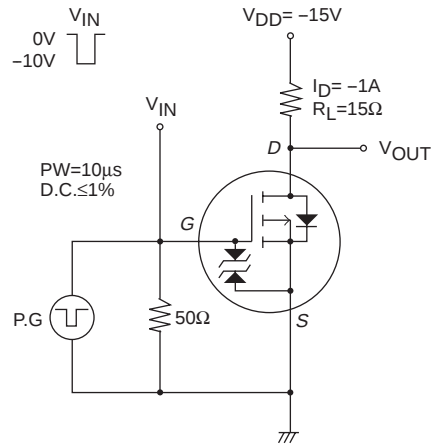


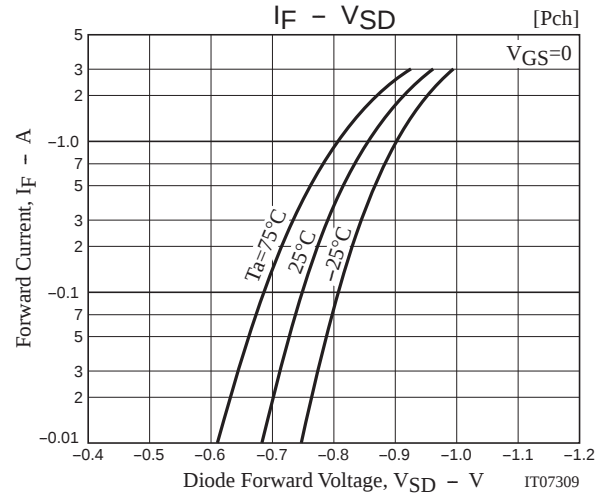
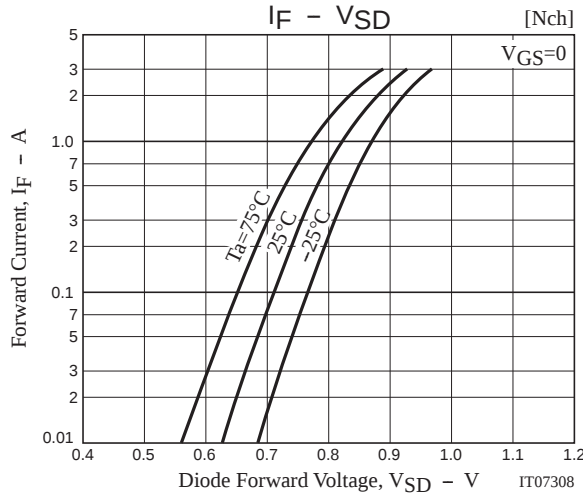
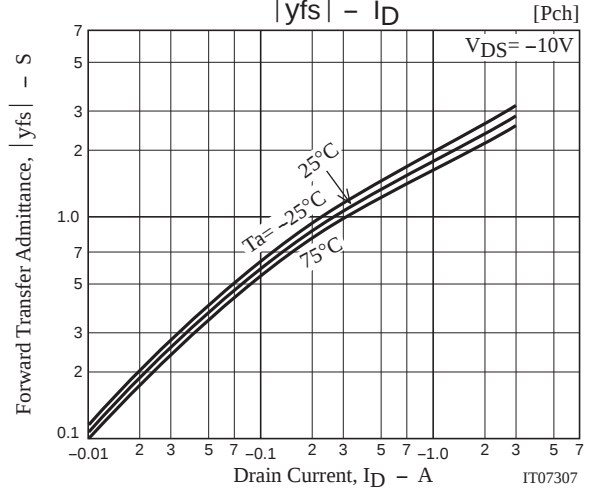
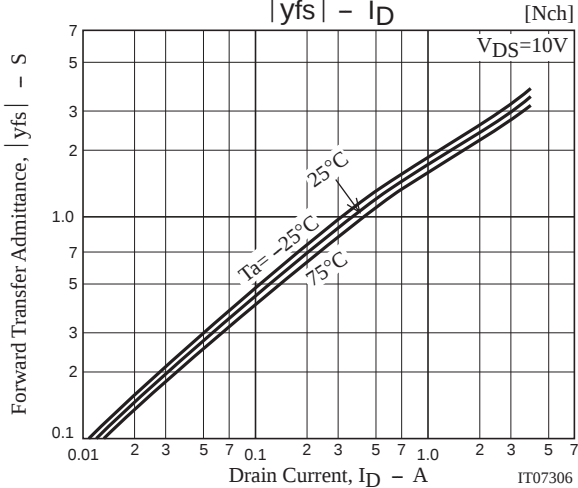
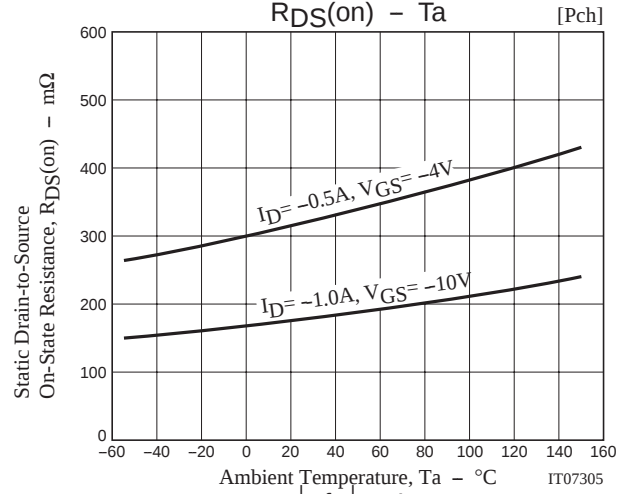
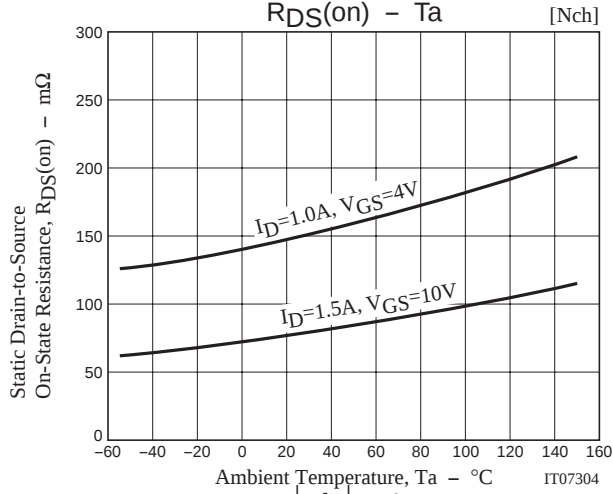
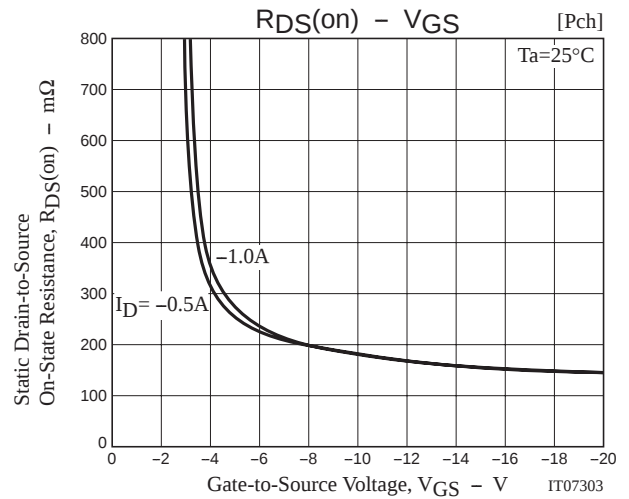
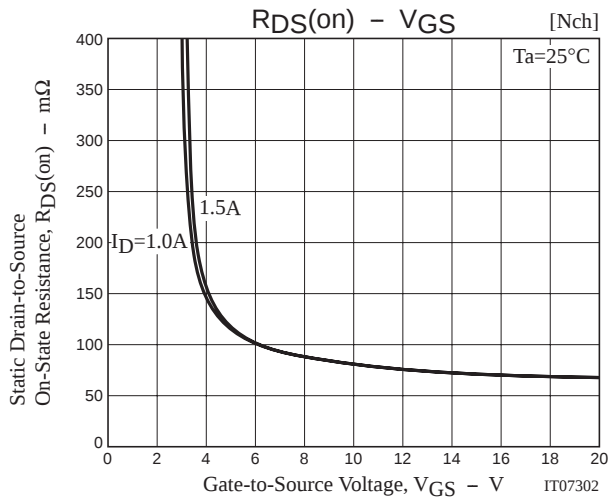
Switching Time Test Circuit

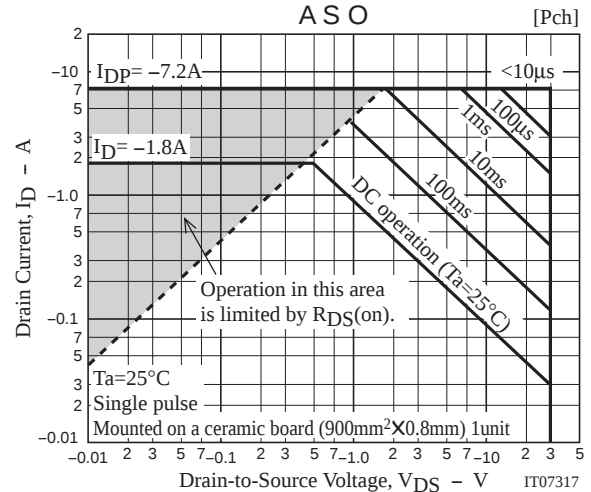
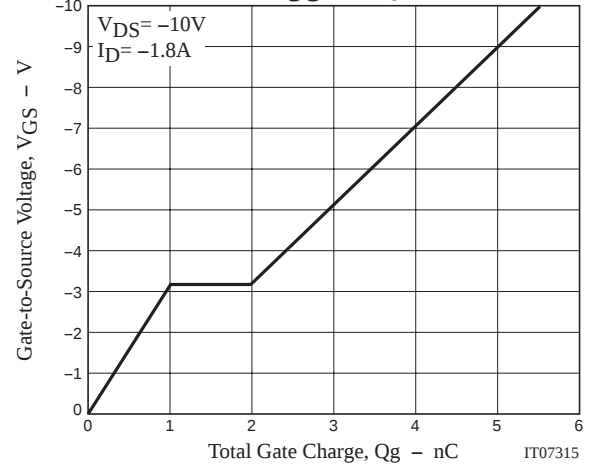
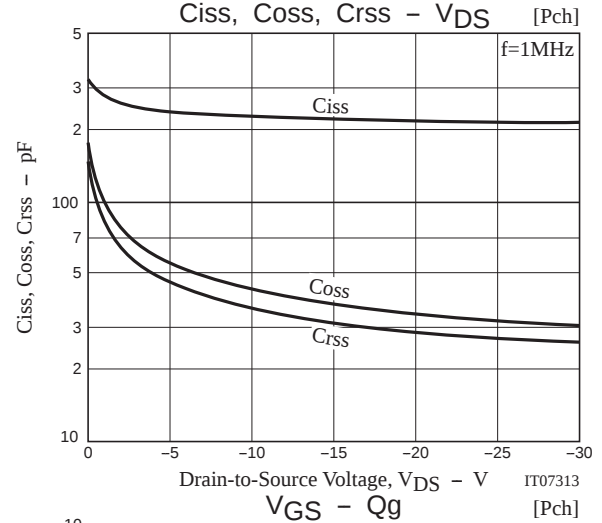
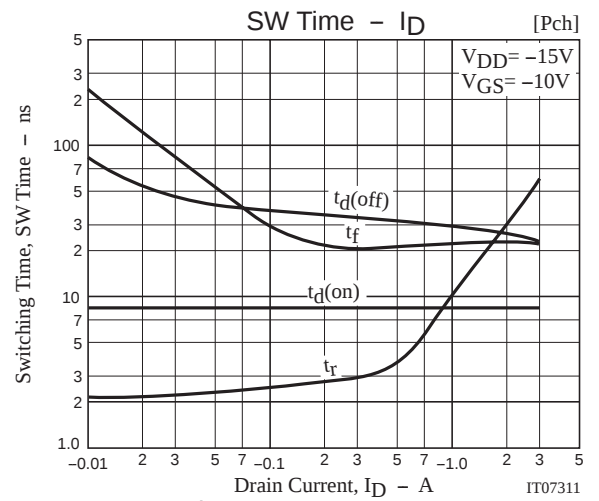
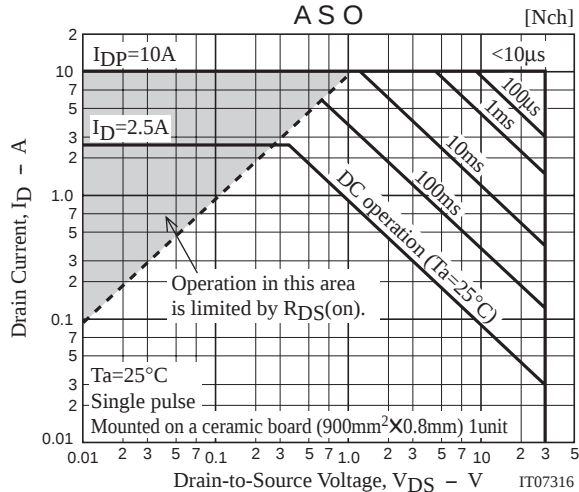
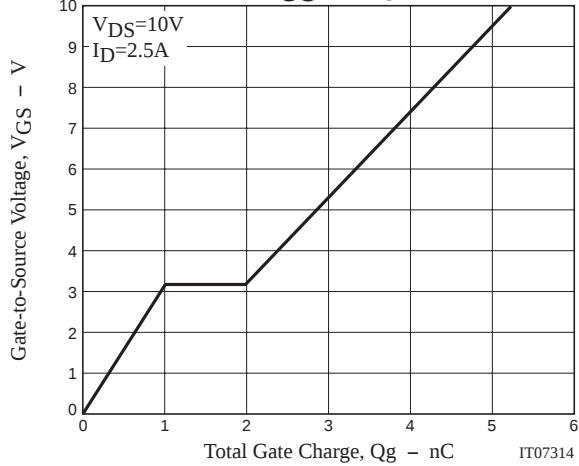
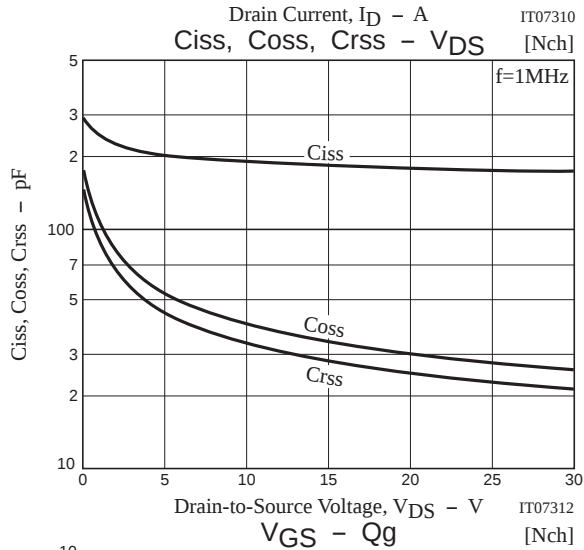
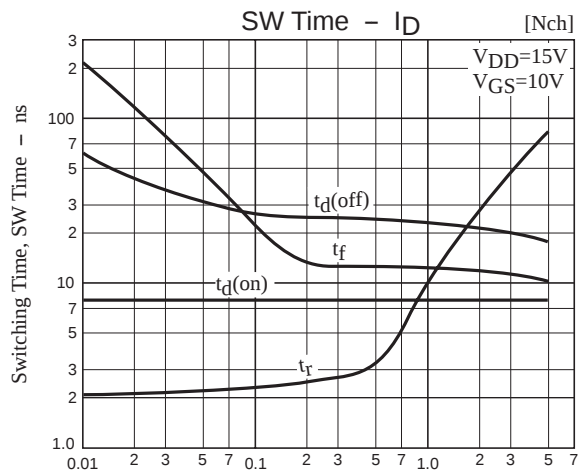
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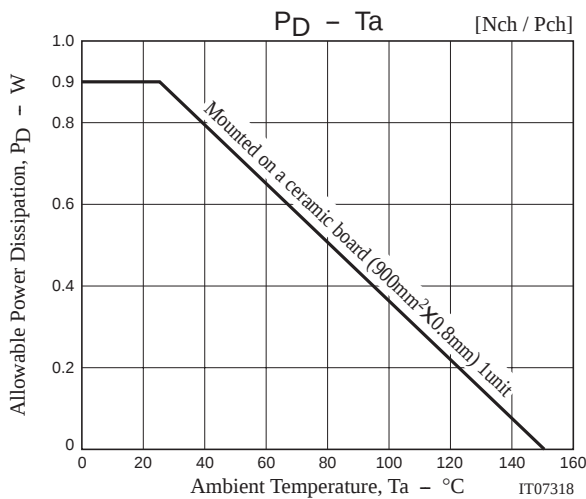


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Note on usage : Since the CPH6615 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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