Continued from preceding page.

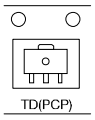
Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Static Drain to Source On-State Resistance	$R_{DS}(on)1$	I_D=0.3A, V_{GS}=4.5V		5	6.5	Ω
	$R_{DS}(on)2$	I_D=0.3A, V_{GS}=2.5V		5.1	7.2	Ω
Input Capacitance	Ciss	V_{DS}=20V, f=1MHz		140		pF
Output Capacitance	Coss			8		pF
Reverse Transfer Capacitance	Crss			3		pF
Turn-ON Delay Time	$t_d(on)$	See specified Test Circuit		7.6		ns
Rise Time	t_r			7.8		ns
Turn-OFF Delay Time	$t_d(off)$			19		ns
Fall Time	t_f			26		ns
Total Gate Charge	Qg	V_{DS}=125V, V_{GS}=4.5V, I_D=0.6A		2.1		nC
Gate to Source Charge	Qgs			0.3		nC
Gate to Drain “Miller” Charge	Qgd			0.7		nC
Forward Diode Voltage	V_{SD}	I_S=0.6A, V_{GS}=0V		0.84	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.

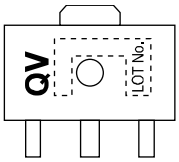
Ordering & Package Information

Device	Package	Shipping	note
PCP1405-TD-H	PCP, SC-62 SOT-89, TO-243	1,000 pcs. / reel	Pb-Free and Halogen Free

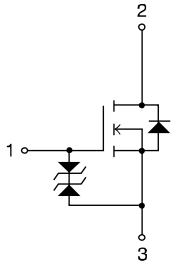
Packing Type:TD



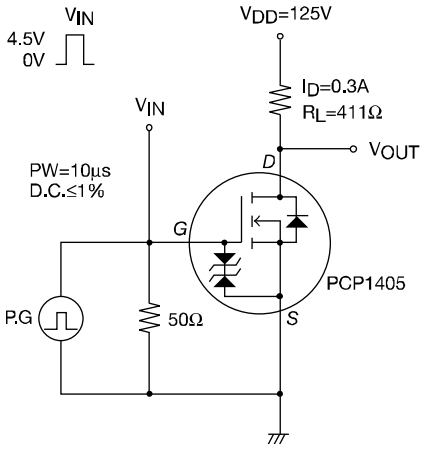
Marking

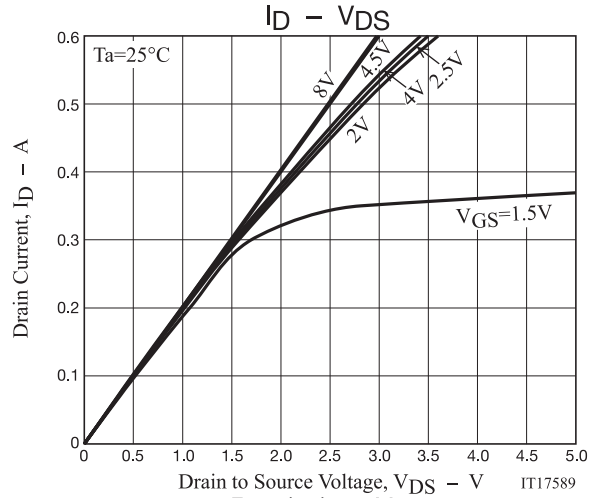


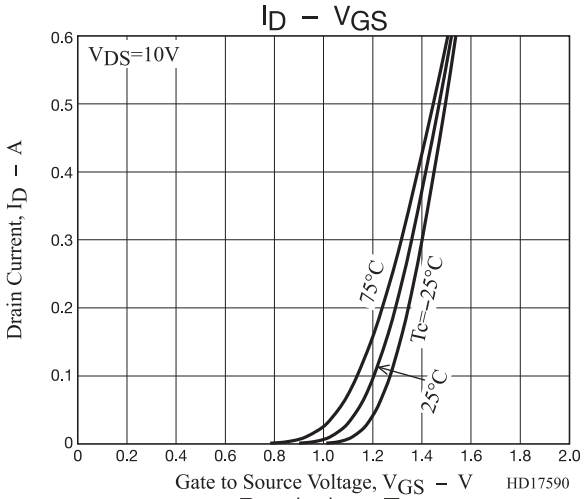
Electrical Connection

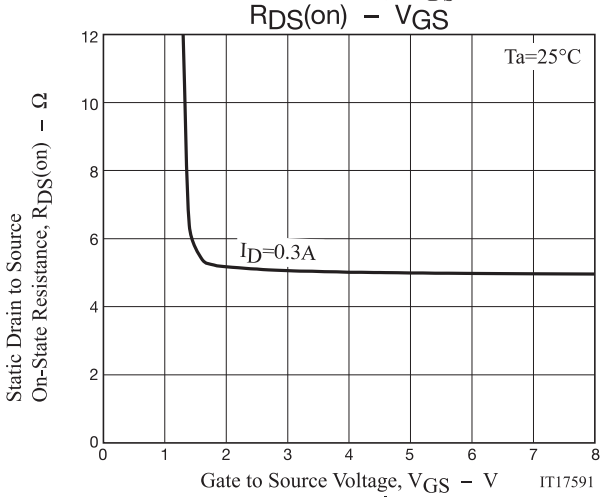


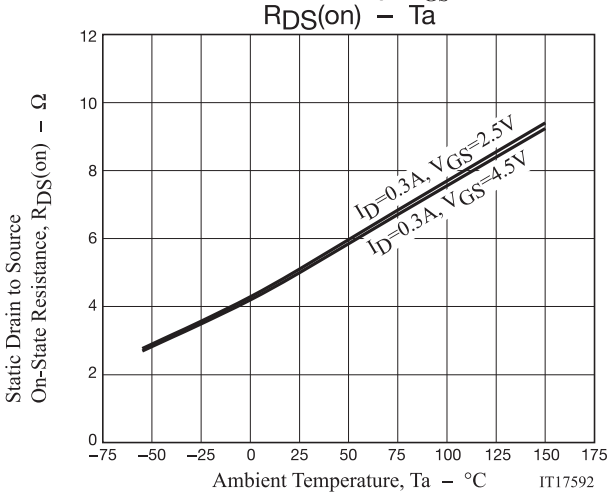
Switching Time Test Circuit

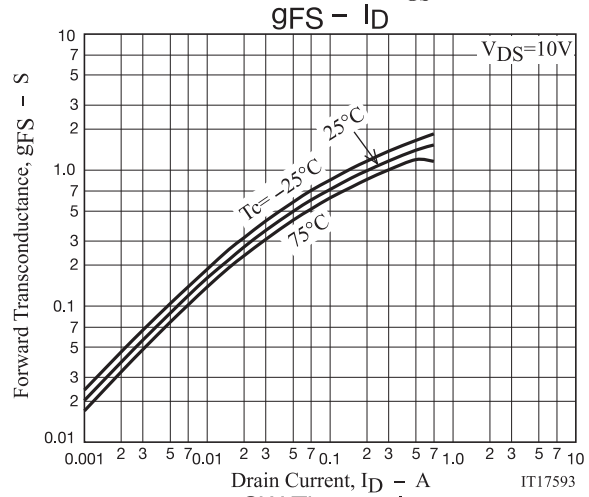


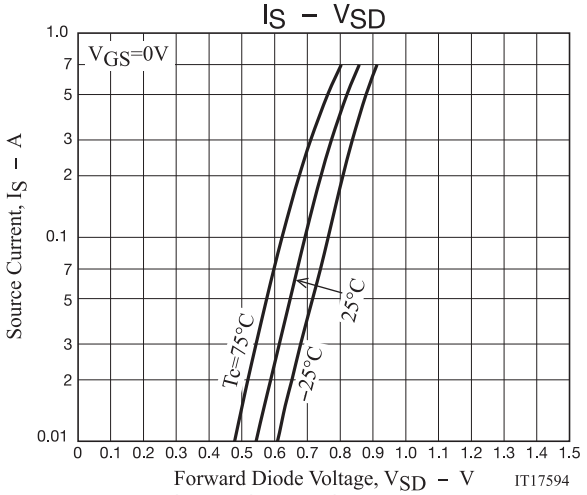


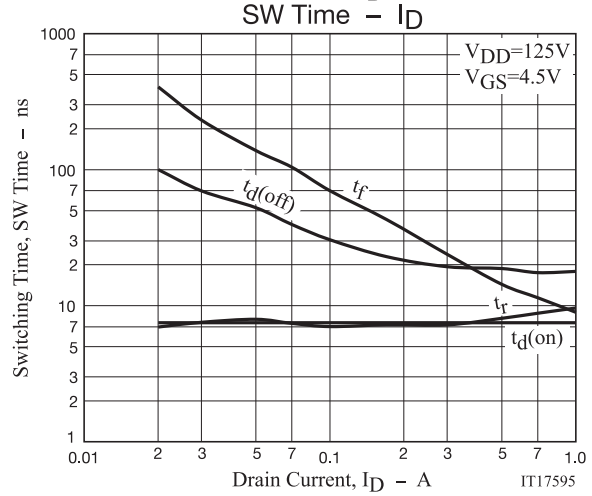


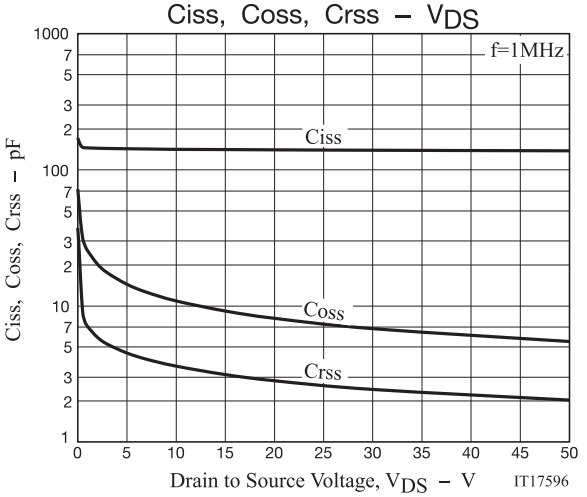


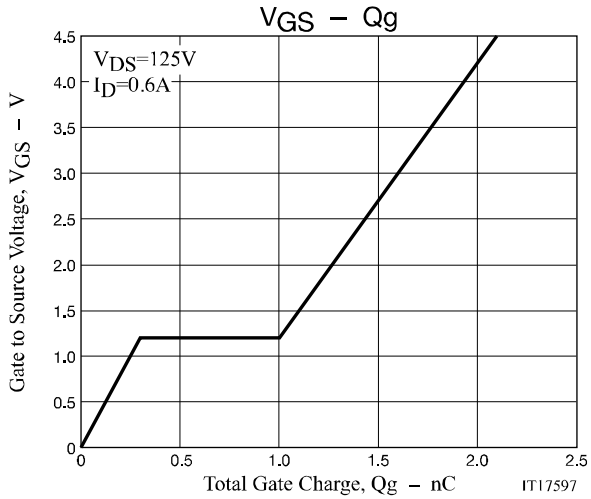


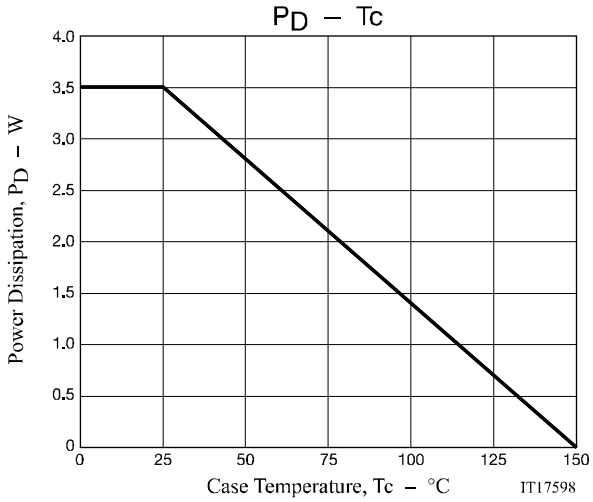


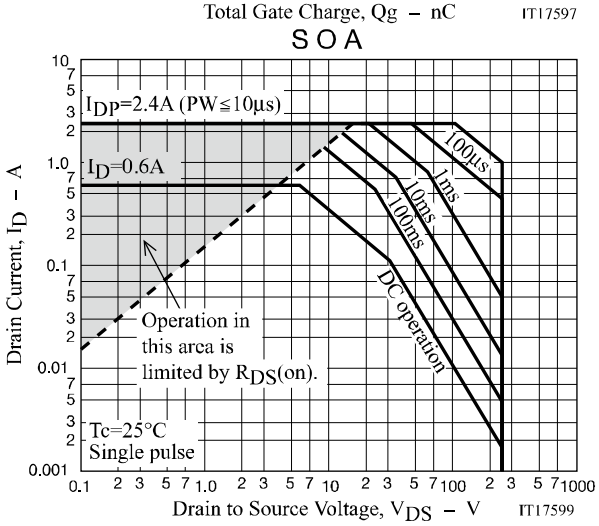


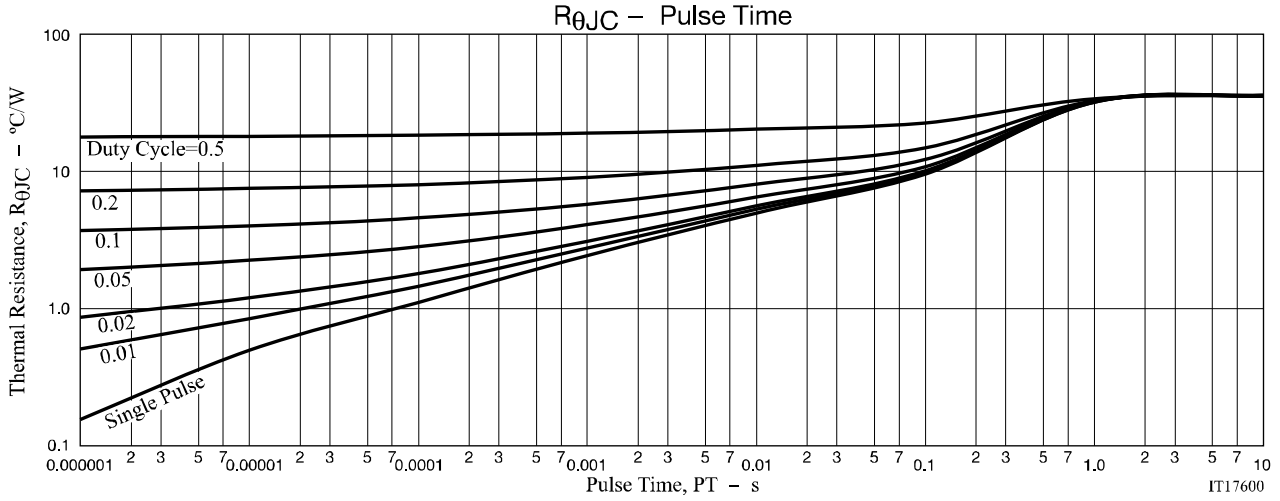












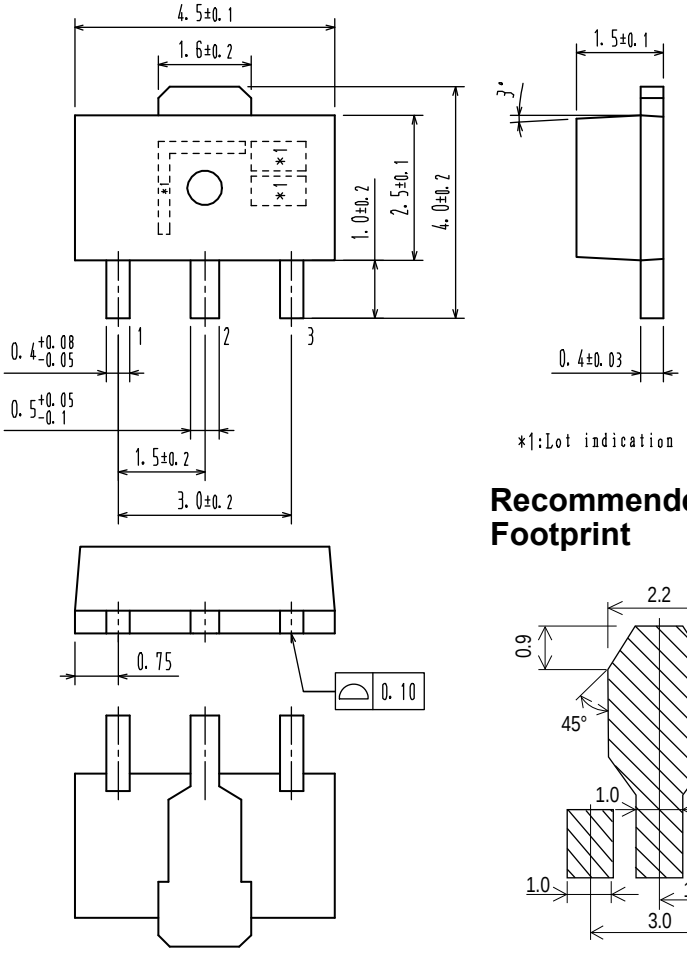
Package Dimensions

PCP1405-TD-H

SOT-89/PCP-1

CASE 419AU
ISSUE O
unit : mm

1: Gate
2: Drain
3: Source



Recommended Soldering Footprint

Note on usage : Since the PCP1405 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.