PCP1405

Continued from preceding page.

Description	Symbol	0 - 10	Value			I I a is
Parameter		Conditions	min	typ	max	Unit
Static Drain to Source On-State Resistance	R _{DS} (on)1	I _D =0.3A, V _G S=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			140		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		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	tf			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

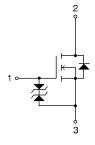
Packing Type:TD



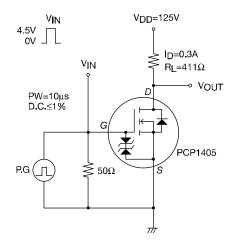
Marking

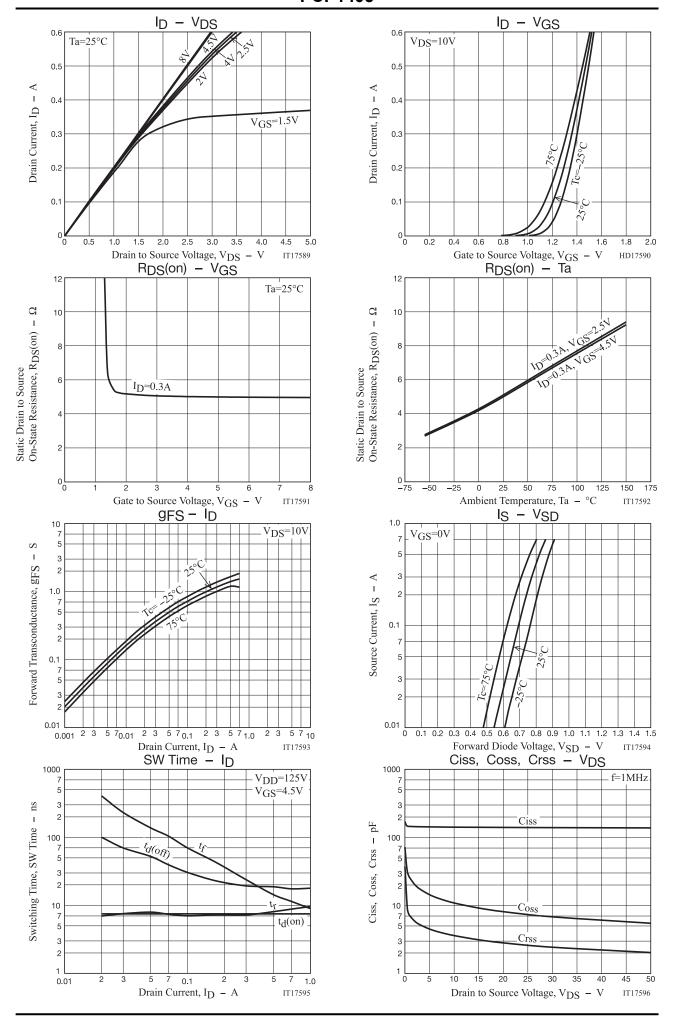


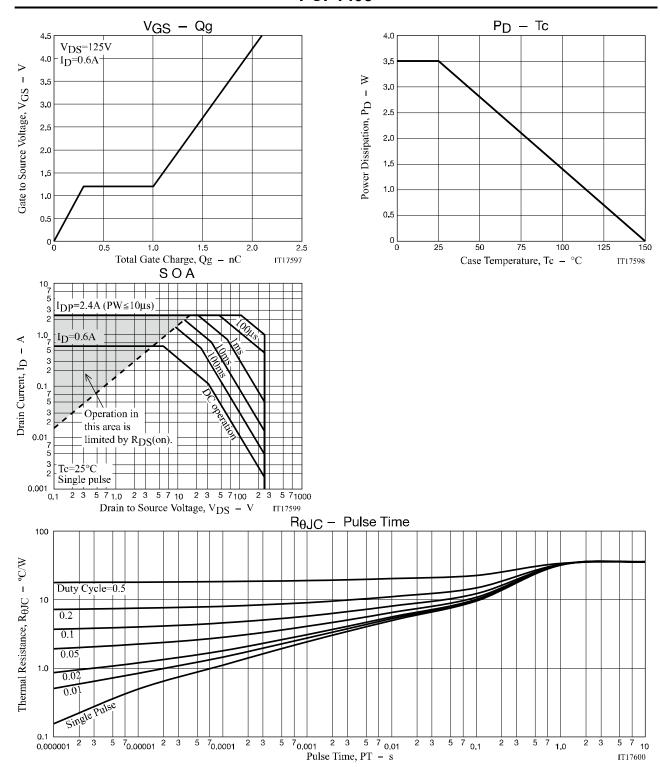
Electrical Connection



Switching Time Test Circuit







Package Dimensions

PCP1405-TD-H

SOT-89/PCP-1

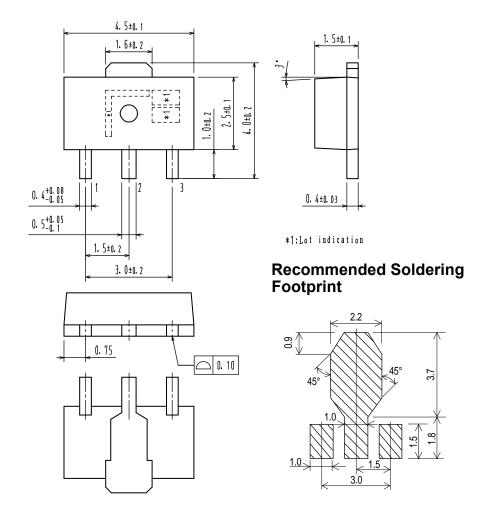
CASE 419AU ISSUE O

unit: mm

1: Gate

2: Drain

3: Source



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

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