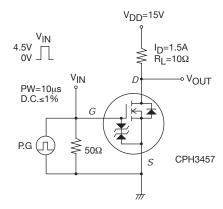
Electrical Characteristics at Ta=25°C

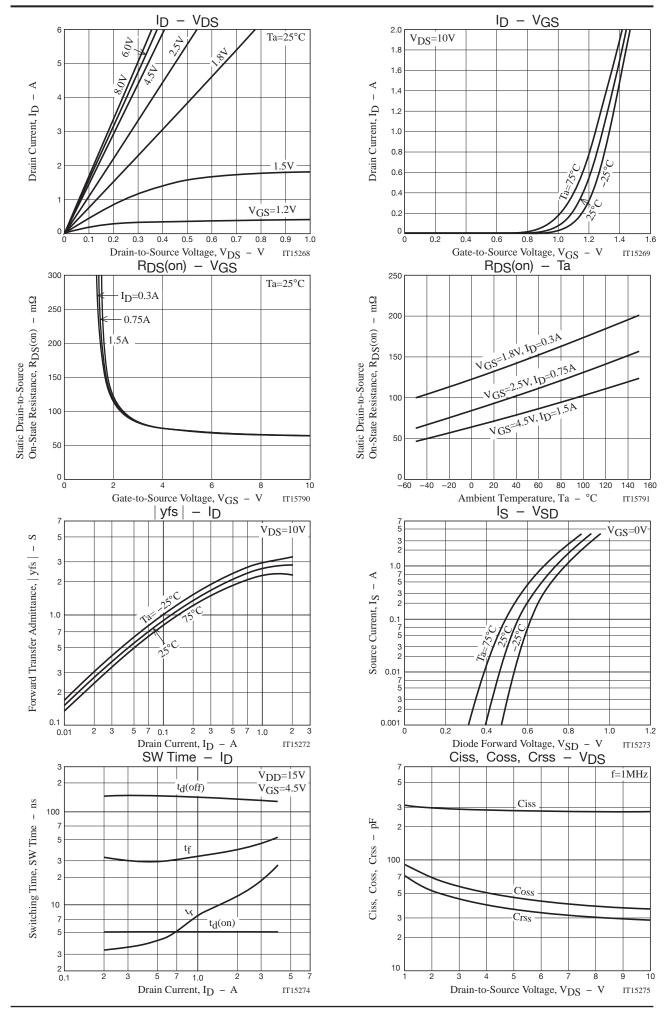
Parameter	Symbol	Conditions	Ratings			1.1-24
Parameter		Conditions	min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	30			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =30V, V _{GS} =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±8V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1mA	0.4		1.3	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =1.5A		2.7		S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	I _D =1.5A, V _G S=4.5V		73	95	mΩ
	R _{DS} (on)2	I _D =0.75A, V _{GS} =2.5V		95	133	mΩ
	R _{DS} (on)2	I _D =0.3A, V _G S=1.8V		135	203	mΩ
Input Capacitance	Ciss	V _{DS} =10V, f=1MHz		265		pF
Output Capacitance	Coss	V _{DS} =10V, f=1MHz		35		pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, f=1MHz		28		pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit.		5.1		ns
Rise Time	t _r	See specified Test Circuit.		10		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.				ns
Fall Time	tf	See specified Test Circuit.		36		ns
Total Gate Charge	Qg	V _{DS} =15V, V _{GS} =4.5V, I _D =3A		3.5		nC
Gate-to-Source Charge	Qgs	V _{DS} =15V, V _{GS} =4.5V, I _D =3A		0.57		nC
Gate-to-Drain "Miller" Charge	Qgd	V _{DS} =15V, V _{GS} =4.5V, I _D =3A		0.93		nC
Diode Forward Voltage	V _{SD}	I _S =3A, V _{GS} =0V		0.87	1.2	V

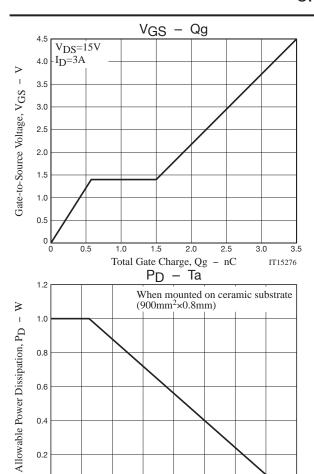
Switching Time Test Circuit

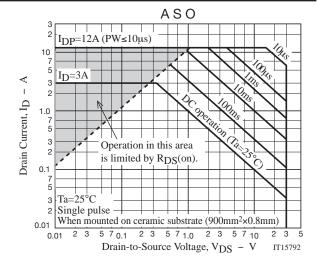


Ordering Information

Device	Device Package		memo	
CPH3457-TL-H	CPH3	3,000pcs./reel	Pb Free and Halogen Free	







0.2

0 L

20

60

80

Ambient Temperature, Ta - °C

100

140

160

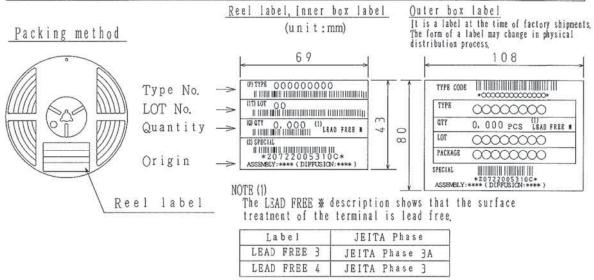
IT15789

Embossed Taping Specification

CPH3457-TL-H

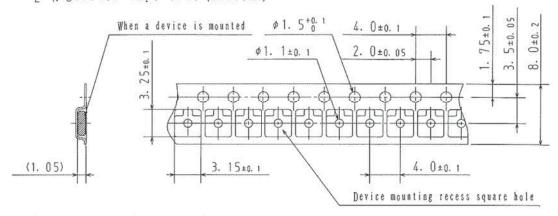
1. Packing Format

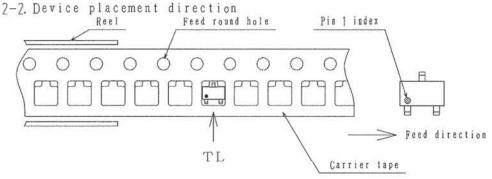
Package Name Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format		
	Reel	laner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)	
CPH3	СРНЗ	3, 000	15, 000	90, 000	A - N. CONT. CLASS. CONSTRUCTOR UNIVERSITY	6 inner boxes contained Dimensions:mm (external) 440×195×210



2. Taping configuration

2-1. Carrier tape size (unit:mm)





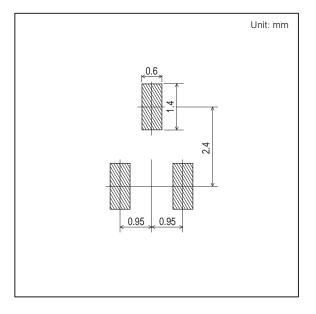
Those with one electrode terminal on the feed hole side TL

Outline Drawing

CPH3457-TL-H

Mass (g) Unit 0.013 mm 0. 15^{+0. 1}_{-0. 05} 2. 9±0. 1 0.6±0.1 A 0. 2±0. 1 *1] [*1] 0. 05±0.05 1.6±0.1 *1 2 0.6±0.1 0.95 PIN#1 *1:Lot indication

Land Pattern Example



Note on usage: Since the CPH3457 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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