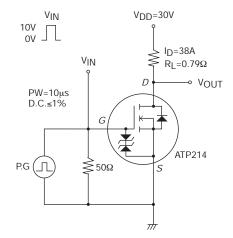
Parameter	Cumbral	Conditions		Ratings		
	Symbol	Conditions	min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	60			V
Zero-Gate Voltage Drain Current	IDSS	V <sub>DS</sub> =60V, V <sub>GS</sub> =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V <sub>GS</sub> =±16V, V <sub>DS</sub> =0V			±10	μΑ
Cutoff Voltage	VGS(off)	V <sub>DS</sub> =10V, I <sub>D</sub> =1mA	1.2		2.6	V
Forward Transfer Admittance	yfs	VDS=10V, ID=38A		100		S
	R <sub>DS</sub> (on)1	ID=38A, VGS=10V		6.2	8.1	mΩ
Static Drain-to-Source On-State Resistance	R <sub>DS</sub> (on)2	ID=19A, VGS=4.5V		8.2	11.5	mΩ
	R <sub>DS</sub> (on)3	ID=10A, VGS=4V		9.2	14	mΩ
Input Capacitance	Ciss			4850		рF
Output Capacitance	Coss	VDS=20V, f=1MHz		370		рF
Reverse Transfer Capacitance	Crss	]		280		рF
Turn-ON Delay Time	t <sub>d</sub> (on)			30		ns
Rise Time	tr			240		ns
Turn-OFF Delay Time	t <sub>d</sub> (off)	See specified Test Circuit.		360		ns
Fall Time	tf	]		250		ns
Total Gate Charge	Qg			96		nC
Gate-to-Source Charge	Qgs	V <sub>DS</sub> =30V, V <sub>GS</sub> =10V, I <sub>D</sub> =75A		18.5		nC
Gate-to-Drain "Miller" Charge	Qgd	1		18		nC
Diode Forward Voltage	V <sub>SD</sub>	IS=75A, VGS=0V		0.93	1.2	V

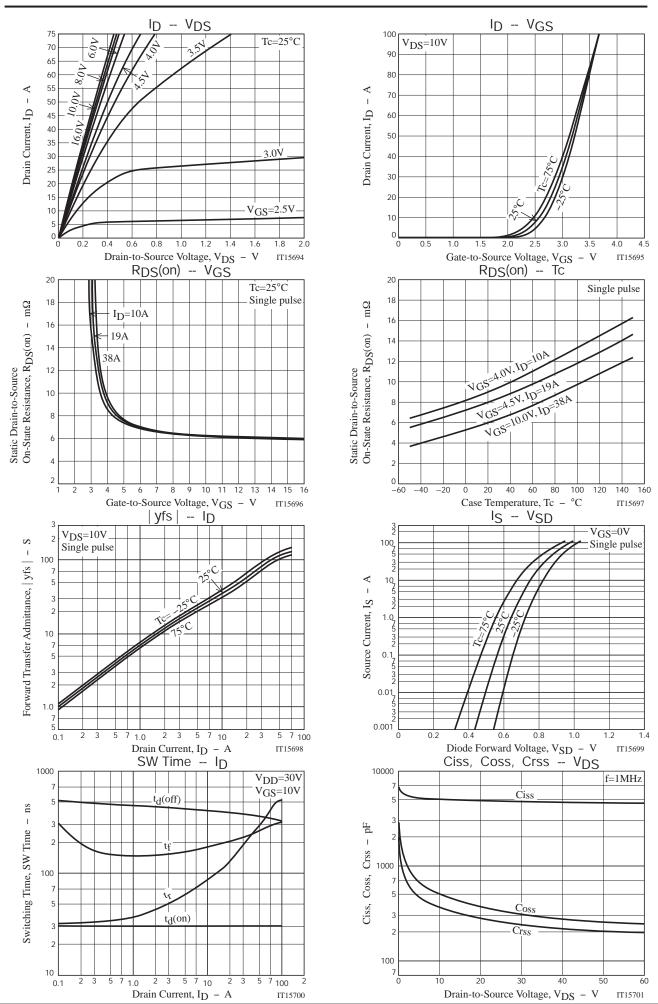
#### Electrical Characteristics at Ta=25°C

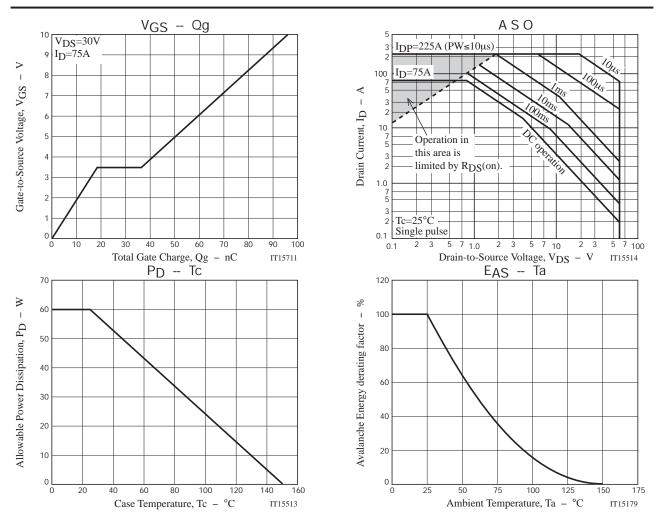
## Switching Time Test Circuit



#### **Ordering Information**

Device	Package	Shipping	memo	
ATP214-TL-H	ATPAK	3,000pcs./reel	Pb Free and Halogen Free	

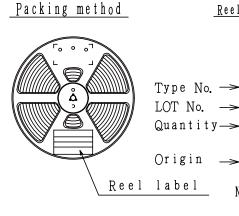


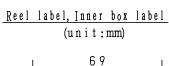


#### **Taping Specification** ATP214-TL-H

1.	Packing	Format	(TL)
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Package Name	Carrier Tape	uevices contained (pcs)			Packing format		
Larrage Mame	Туре			Outer box	INNER BOX SD-C-18	OUTER BOX SD-A-18	
					1 reels contained	5 inner boxes contained	
ATPAK	ATP	3,000	3,000	15,000	Dimensions:mm (external)	Dimensions:mm (external)	
					340×340×28	355×355×165	





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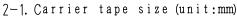
Outer box label It is a label at the time of factory shipments. The form of a label may change in physical distribution process.

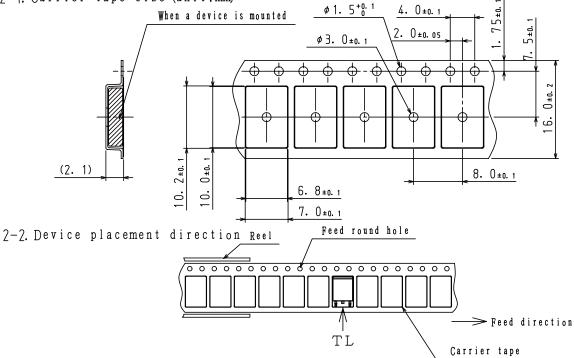
	L 108
	<u>[</u>
1	TYPE CODE
0	QTY 0, 000 PCS LEAD FREE #
ω	
	PACKAGE COCCOCC
-	SPBCIAL WINNIN INWALLY III
_	*20722005310C* ASSEMBLY:**** (DIFFUSION:*****)

NOTE (1) The LEAD FREE 🕷 description shows that the surface treatment of the terminal is lead free.

Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

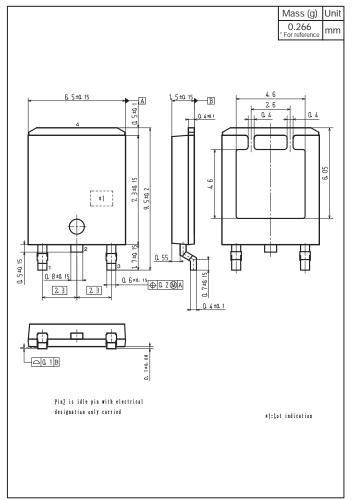
2. Taping configuration



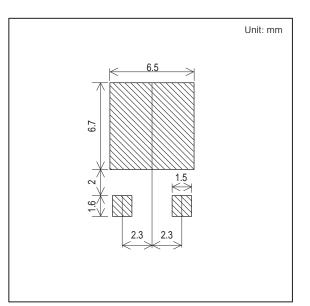


The one erectrode terminals on feed hole side .... TL

### Outline Drawing ATP214-TL-H



#### Land Pattern Example



# Note on usage : Since the ATP214 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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