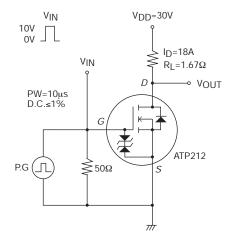
Deremeter	Cumbral	Conditions	Ratings			11
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	60			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =60V, V _{GS} =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D =1mA	1.2		2.6	V
Forward Transfer Admittance	yfs	VDS=10V, ID=18A		35		S
	R _{DS} (on)1	ID=18A, VGS=10V		17	23	mΩ
Static Drain-to-Source On-State Resistance	R _{DS} (on)2	ID=9A, VGS=4.5V		23	33	mΩ
	R _{DS} (on)3	ID=5A, VGS=4V		25	37	mΩ
Input Capacitance	Ciss			1820		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		150		pF
Reverse Transfer Capacitance	Crss			100		pF
Turn-ON Delay Time	t _d (on)			16		ns
Rise Time	tr			110		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		125		ns
Fall Time	tf			87		ns
Total Gate Charge	Qg			34.5		nC
Gate-to-Source Charge	Qgs	V _{DS} =30V, V _{GS} =10V, I _D =35A		6.5		nC
Gate-to-Drain "Miller" Charge	Qgd	1		6.8		nC
Diode Forward Voltage	V _{SD}	IS=35A, VGS=0V		0.96	1.2	V

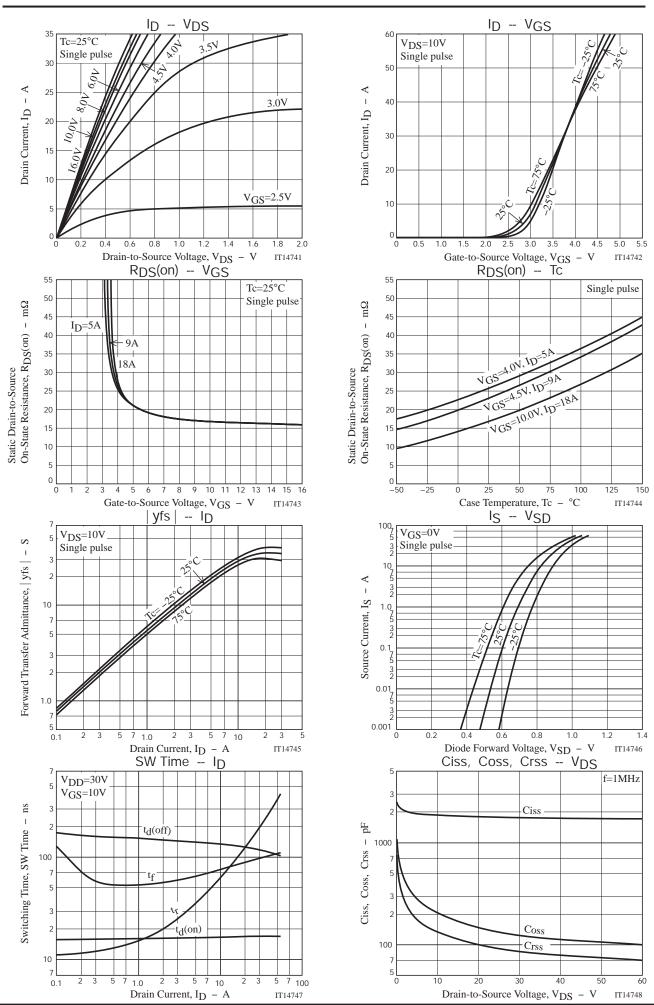
Electrical Characteristics at Ta=25°C

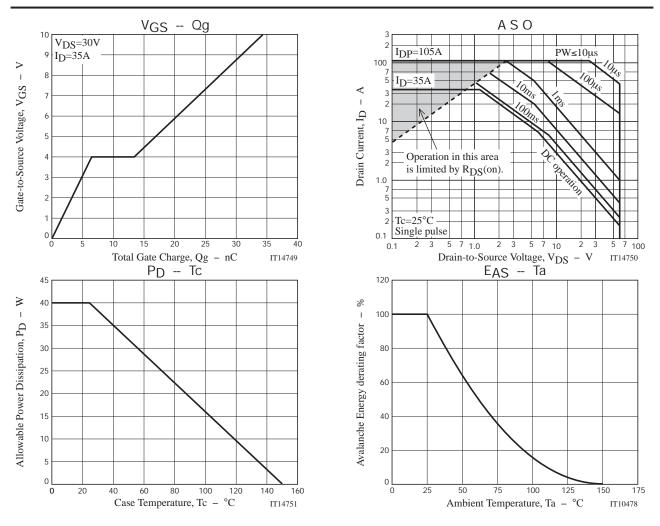
Switching Time Test Circuit



Ordering Information

Device	Package	Shipping	memo	
ATP212-TL-H	ATPAK	3,000pcs./reel	Pb Free and Halogen Free	

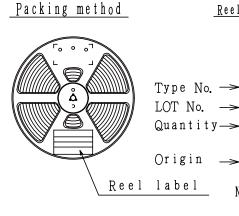


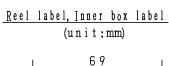


Taping Specification ATP212-TL-H

1.	Packing	Format	(TL)
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Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format		
Package Name Type		Reel	Inner box	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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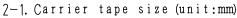
Outer box label It is a label at the time of factory shipments. The form of a label may change in physical distribution process.

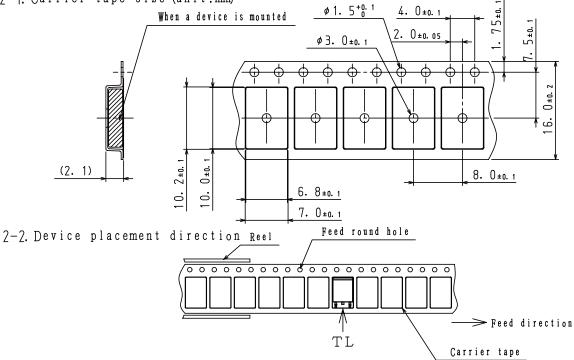
	108
Î	TYPE CODE
	TTPE COCCOCCO
0	QTY 0,000 PCS LEAD FREE #
ω	101 000000000 101
-	SPECIAL ((())))))))))))))))))))))))))))))))))
_	* 20722005310C* ASSEMBLY:***** (DIFFUSION:*****)

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		

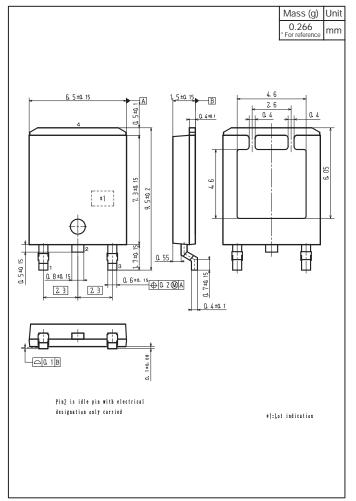
2. Taping configuration



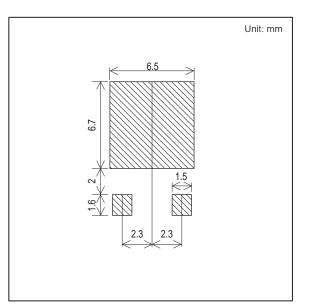


The one erectrode terminals on feed hole side TL

Outline Drawing ATP212-TL-H



Land Pattern Example



Note on usage : Since the ATP212 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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