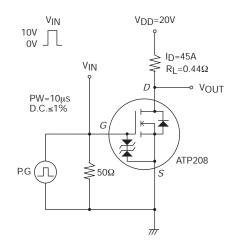
Electrical Characteristics at Ta=25°C

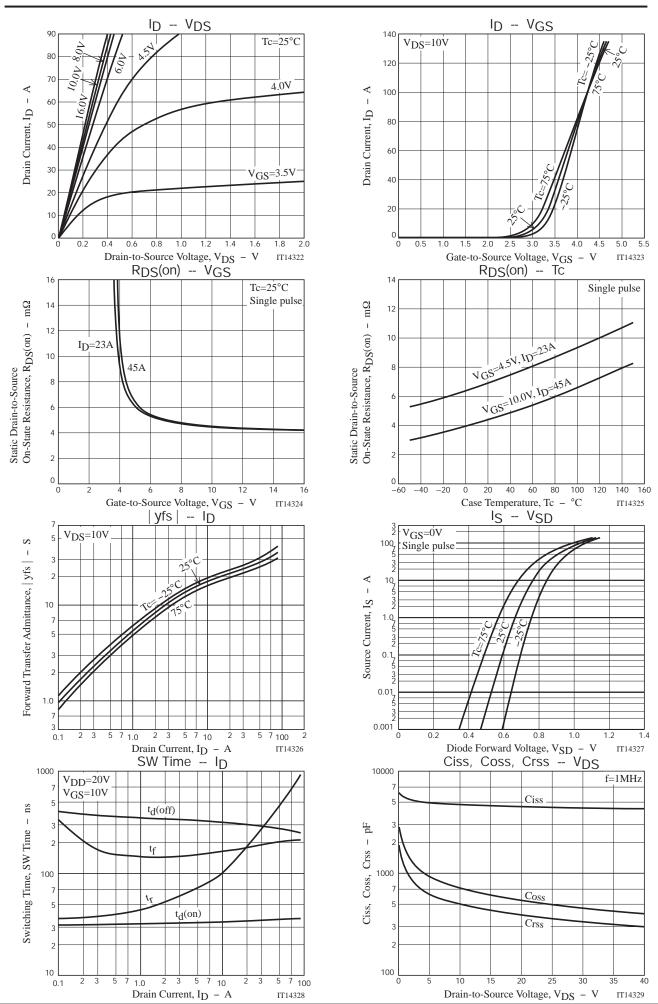
Parameter	Symbol	Constitution of	Ratings			11-14
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	40			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =40V, V _{GS} =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1mA	1.5		2.6	V
Forward Transfer Admittance	yfs	VDS=10V, ID=45A	16	28		S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	ID=45A, VGS=10V		4.6	6.0	mΩ
	R _{DS} (on)2	ID=23A, VGS=4.5V		7	9.8	mΩ
Input Capacitance	Ciss			4510		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		535		pF
Reverse Transfer Capacitance	Crss			385		pF
Turn-ON Delay Time	t _d (on)			35		ns
Rise Time	tr			400		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		280		ns
Fall Time	tf			200		ns
Total Gate Charge	Qg			83		nC
Gate-to-Source Charge	Qgs	V _{DS} =20V, V _{GS} =10V, I _D =90A		19		nC
Gate-to-Drain "Miller" Charge	Qgd			17		nC
Diode Forward Voltage	VSD	IS=90A, VGS=0V		1.0	1.2	V

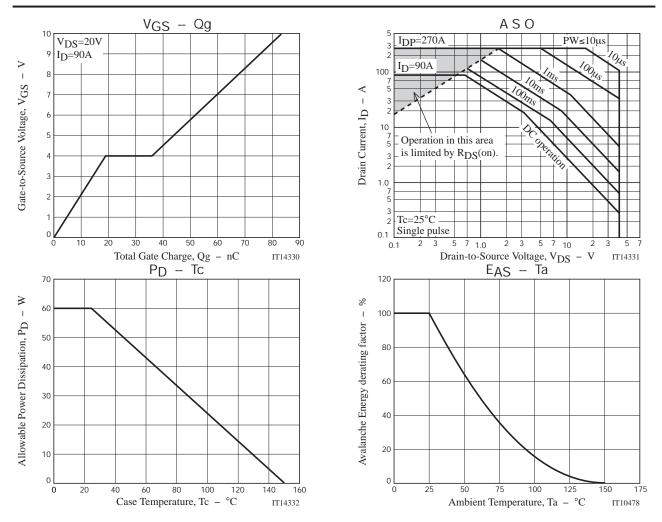
Switching Time Test Circuit



Ordering Information

Device	Package	Shipping	memo	
ATP208-TL-H ATPAK		3,000pcs./reel	Pb Free and Halogen Free	

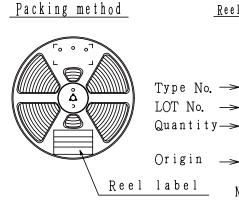




Taping Specification ATP208-TL-H

1. Packing Format (TL)

Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format		
Larvade Mame	Туре	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	



Reel	label, Inner box label			
(unit:mm)				
	(

>

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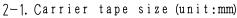
Outer box label It is a label at the time of factory shipments. The form of a label may change in physical distribution process.

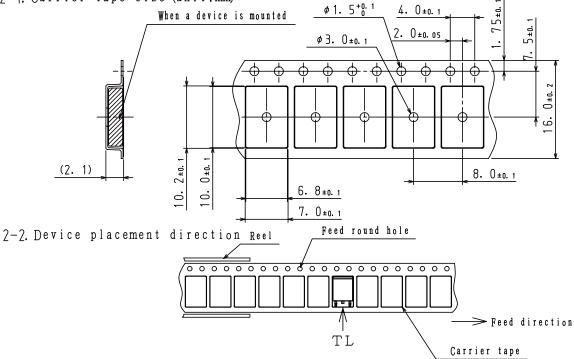
	_	108
		-
Î	TYPE CODE	*
	TYPB	00000000
	QTY	0, 000 pcs (1) LEAD FREE #
8 0	lot	00000000
	PACKAGE	00000000
-	SPECIAL	
_	ASSEMBLY:	*20722005310C* ++++ (DIFFUSION:*****)

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		

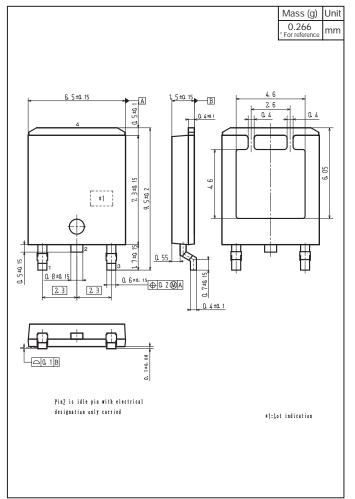
2. Taping configuration



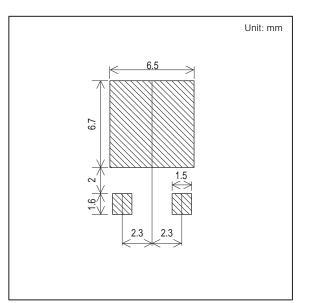


The one erectrode terminals on feed hole side ···· TL

Outline Drawing ATP208-TL-H



Land Pattern Example



Note on usage : Since the ATP208 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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