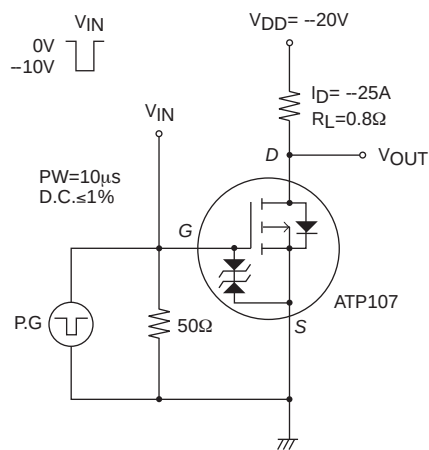


ATP107

Electrical Characteristics at Ta=25°C

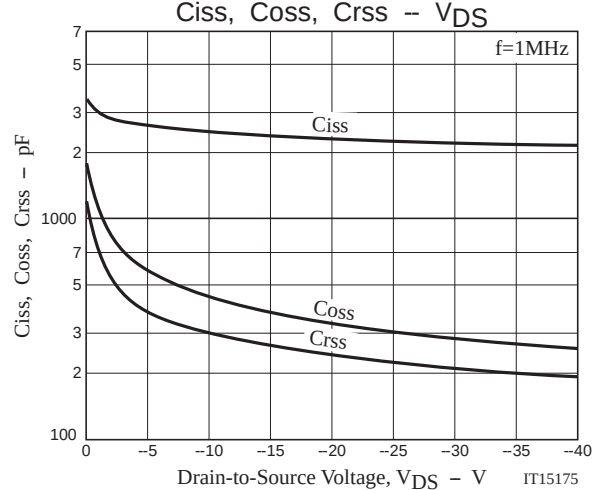
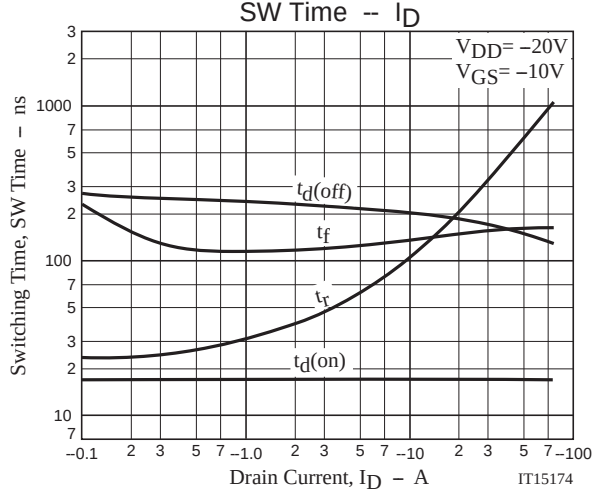
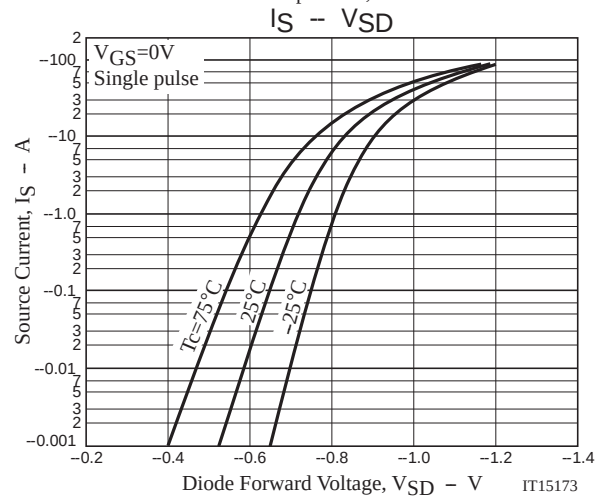
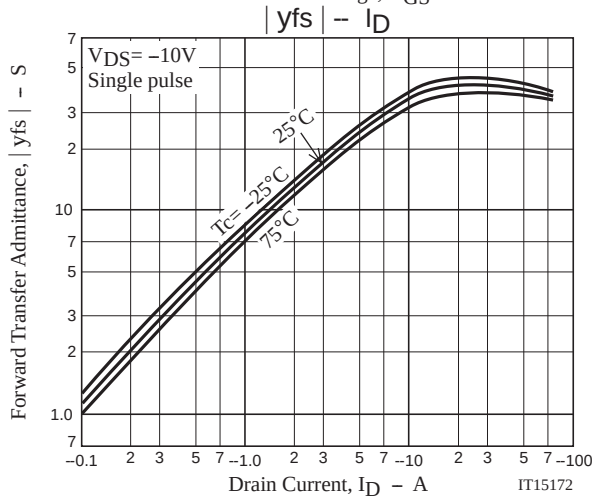
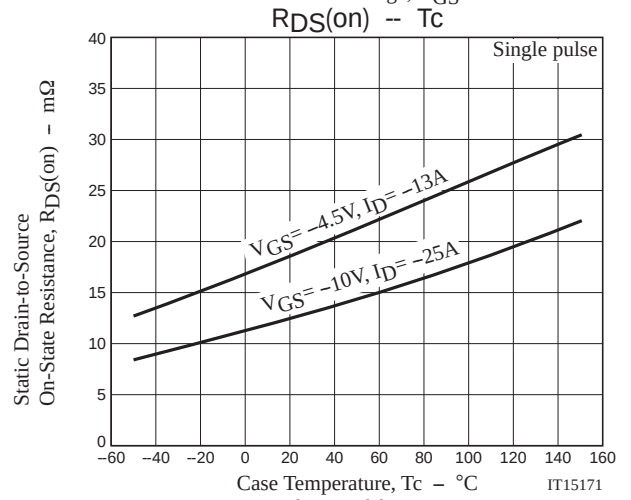
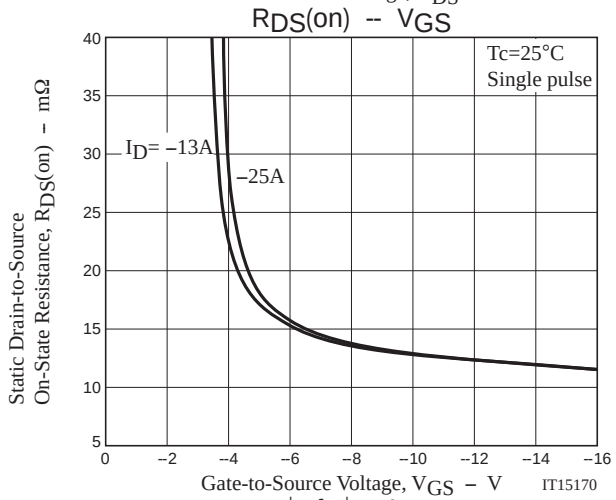
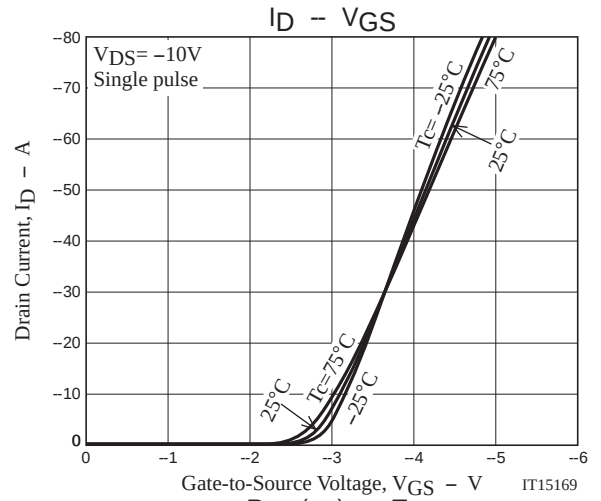
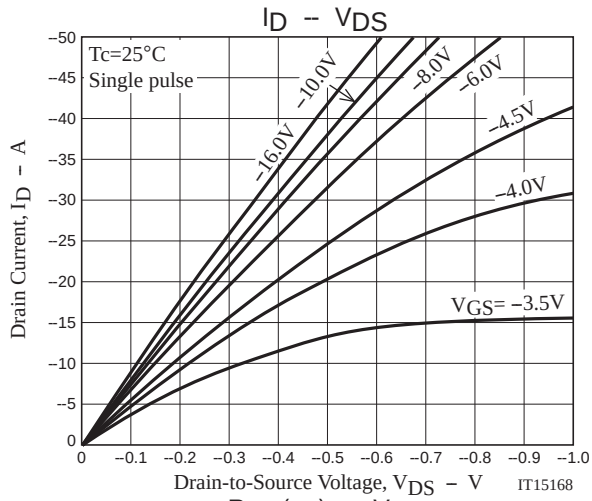
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=-1mA, VGS=0V	-40			V
Zero-Gate Voltage Drain Current	IDSS	VDS=-40V, VGS=0V			-1	μA
Gate-to-Source Leakage Current	IGSS	VGS=±16V, VDS=0V			±10	μA
Cutoff Voltage	VGS(off)	VDS=-10V, ID=-1mA	-1.5		-2.6	V
Forward Transfer Admittance	yfs	VDS=-10V, ID=-25A		40		S
Static Drain-to-Source On-State Resistance	RDS(on)1	ID=-25A, VGS=-10V		13	17	mΩ
	RDS(on)2	ID=-13A, VGS=-4.5V		18.5	26	mΩ
Input Capacitance	Ciss	VDS=-20V, f=1MHz		2400		pF
Output Capacitance	Coss			330		pF
Reverse Transfer Capacitance	Crss			240		pF
Turn-ON Delay Time	td(on)	See specified Test Circuit.		17		ns
Rise Time	tr			260		ns
Turn-OFF Delay Time	td(off)			190		ns
Fall Time	tf			160		ns
Total Gate Charge	Qg	VDS=-20V, VGS=-10V, ID=-50A		47		nC
Gate-to-Source Charge	Qgs			11.5		nC
Gate-to-Drain "Miller" Charge	Qgd			8		nC
Diode Forward Voltage	VSD	IS=-50A, VGS=0V		-1.02	-1.5	V

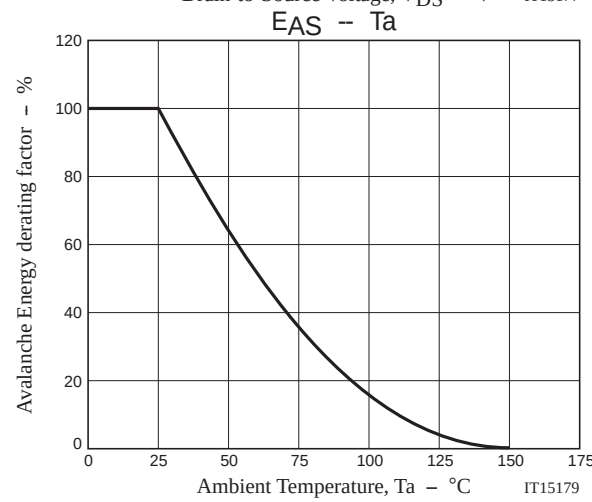
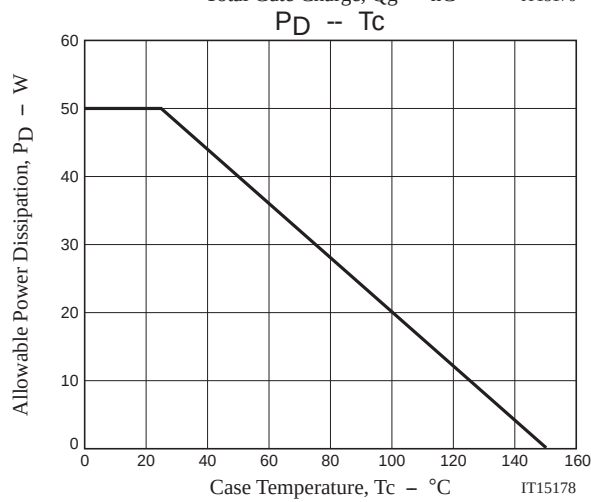
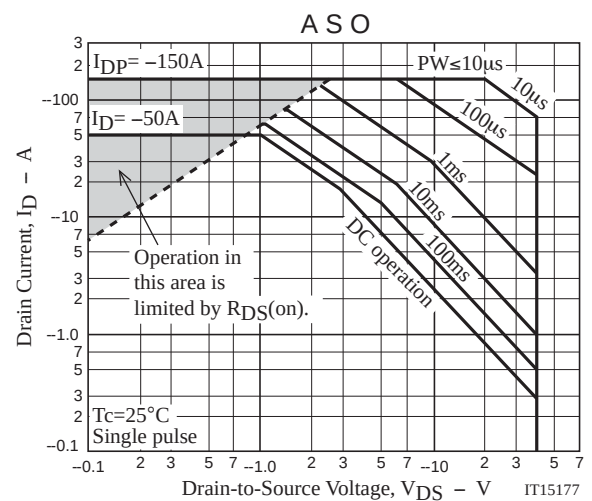
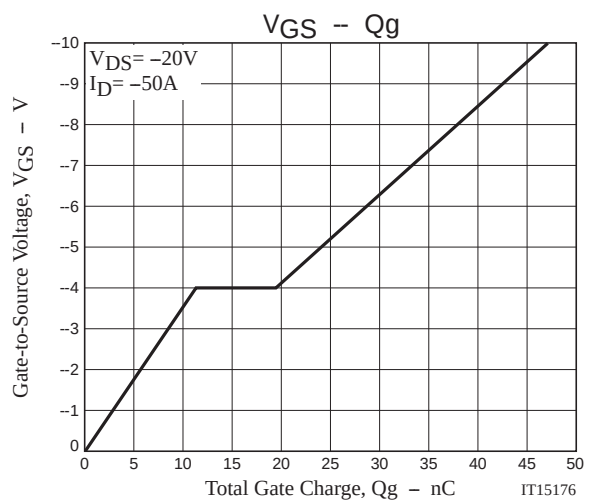
Switching Time Test Circuit



Ordering Information

Device	Package	Shipping	memo
ATP107-TL-H	ATPAK	3,000pcs./reel	Pb Free and Halogen Free





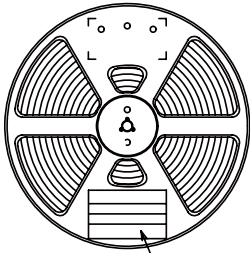
Taping Specification

ATP107-TL-H

1. Packing Format (TL)

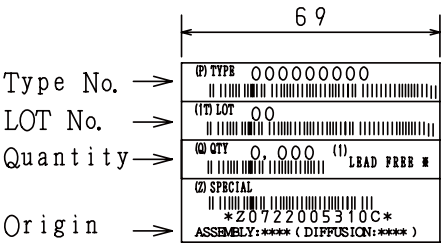
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	INNER BOX SD-C-18	OUTER BOX SD-A-18
ATPAK	ATP	3,000	3,000	15,000	1 reels contained Dimensions:mm (external) 340×340×28	5 inner boxes contained Dimensions:mm (external) 355×355×165

Packing method



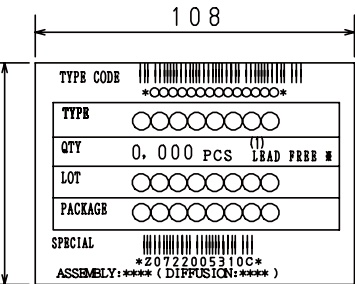
Reel label

Reel label, Inner box label
(unit:mm)



Outer box label

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



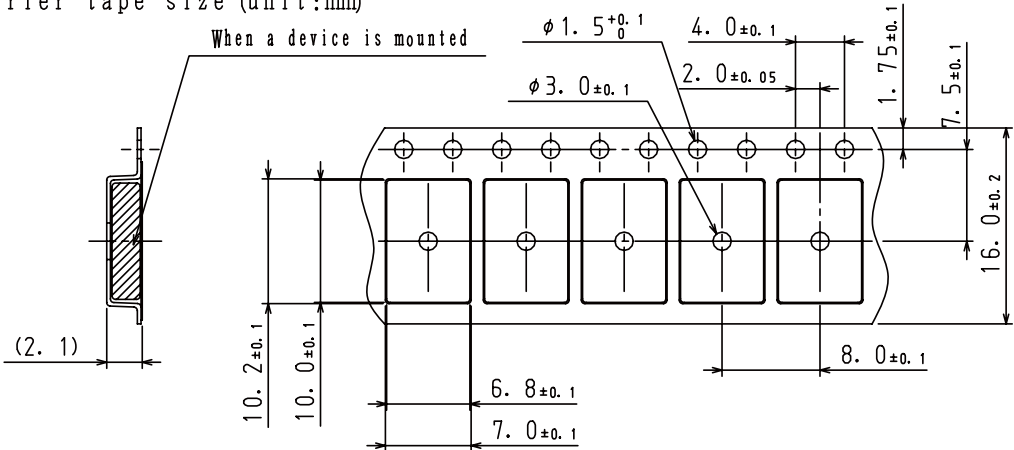
NOTE (1)

The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

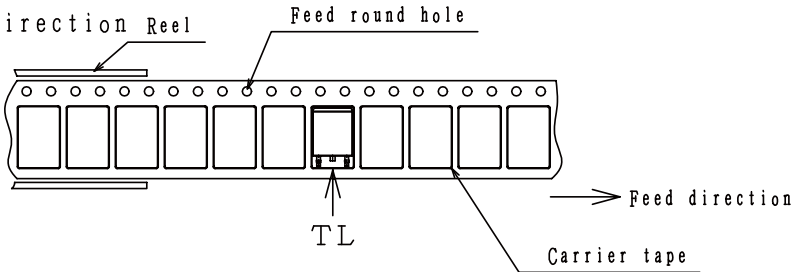
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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

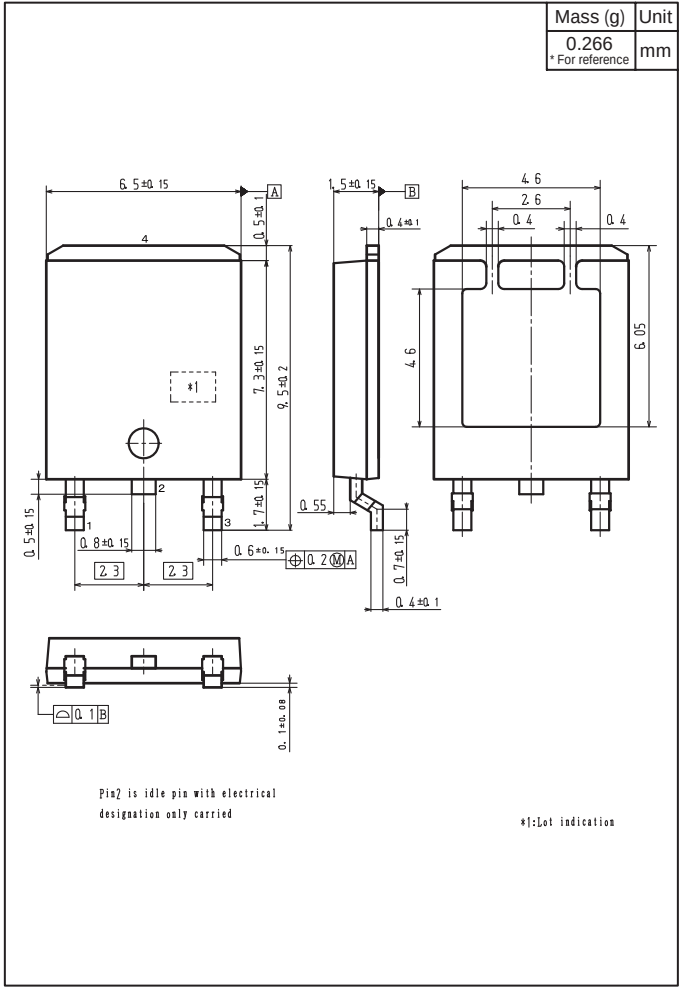


2-2. Device placement direction Reel

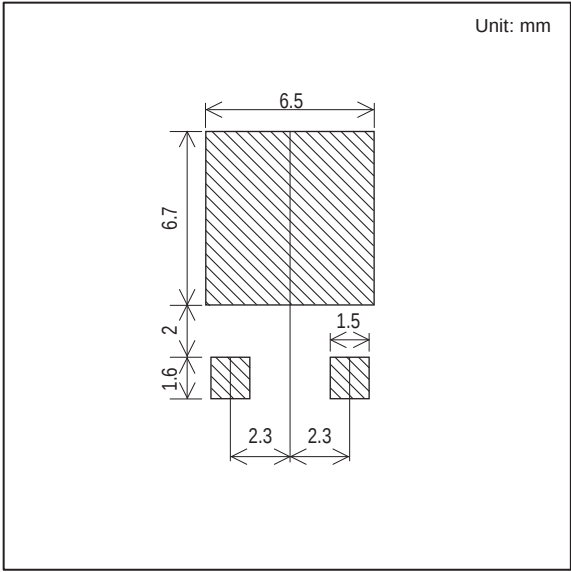


The one electrode terminals on feed hole side...TL

Outline Drawing
ATP107-TL-H



Land Pattern Example



Note on usage : Since the ATP107 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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