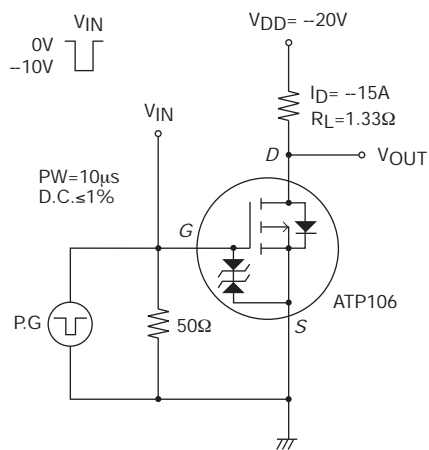


ATP106

Electrical Characteristics at Ta=25°C

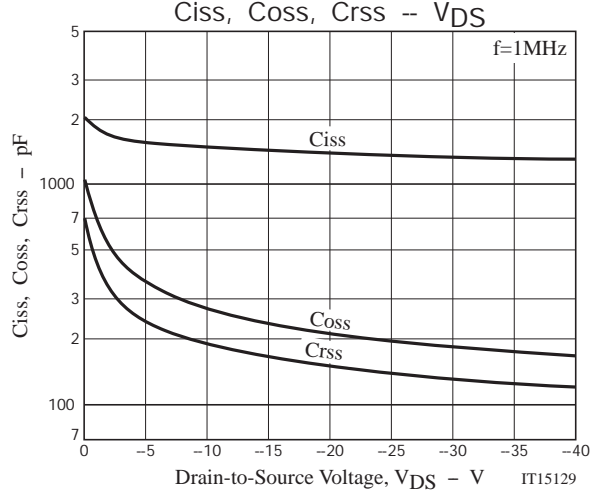
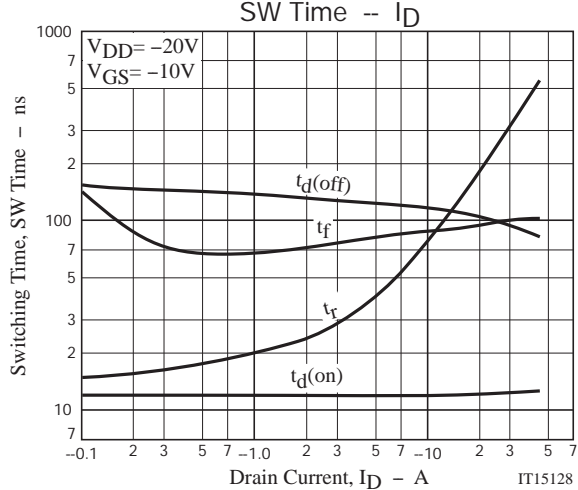
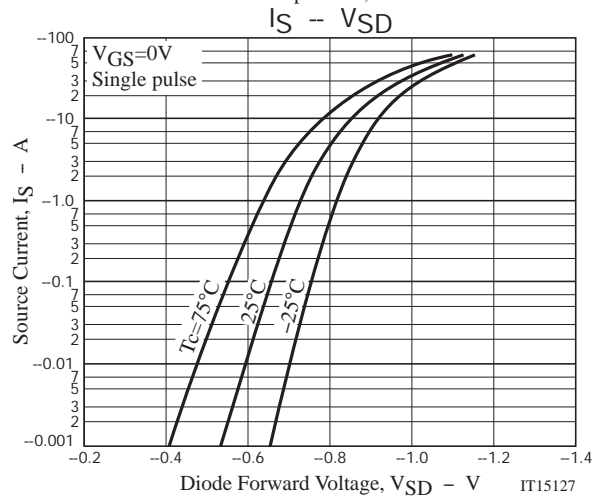
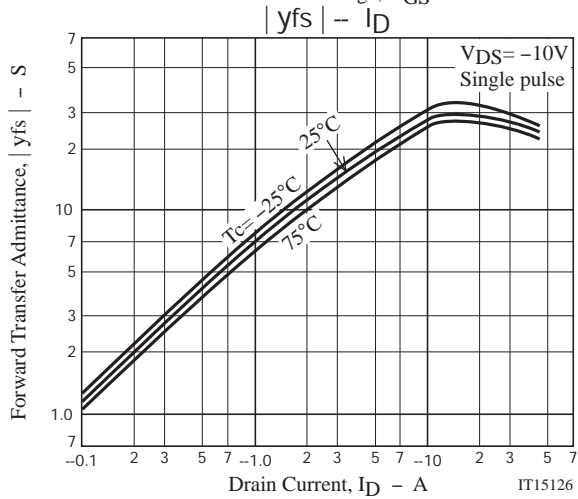
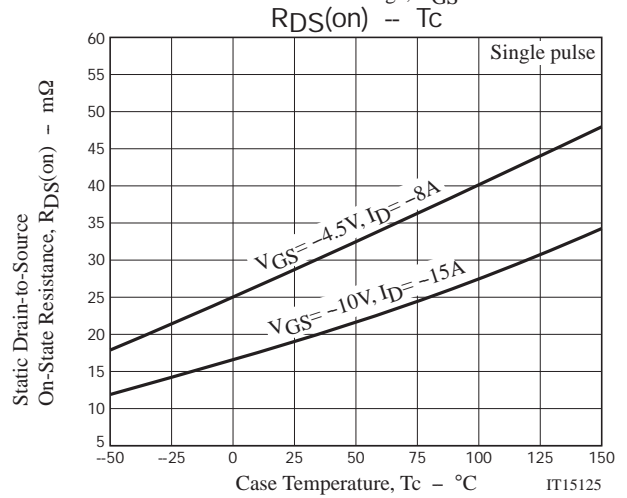
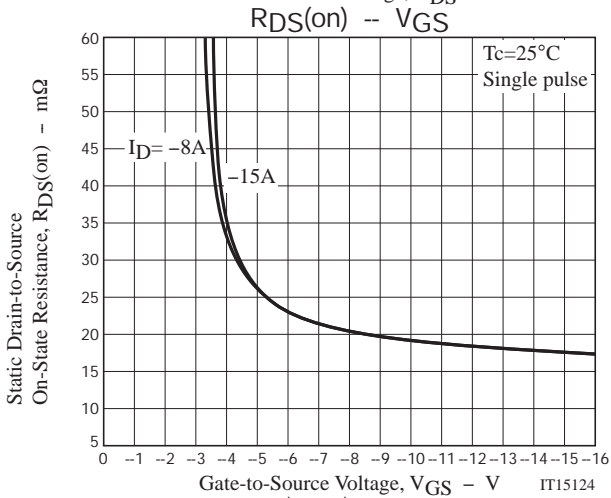
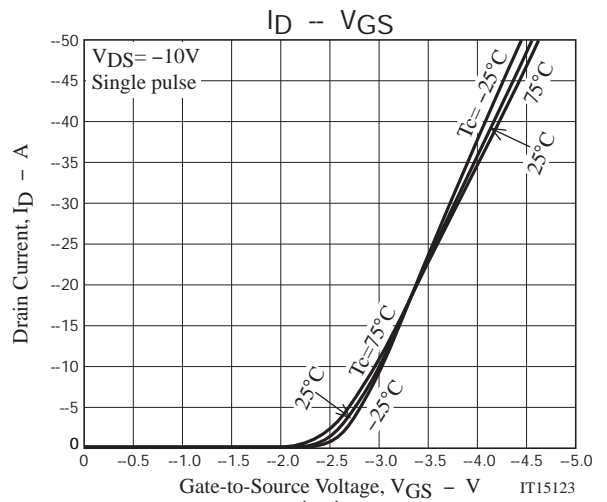
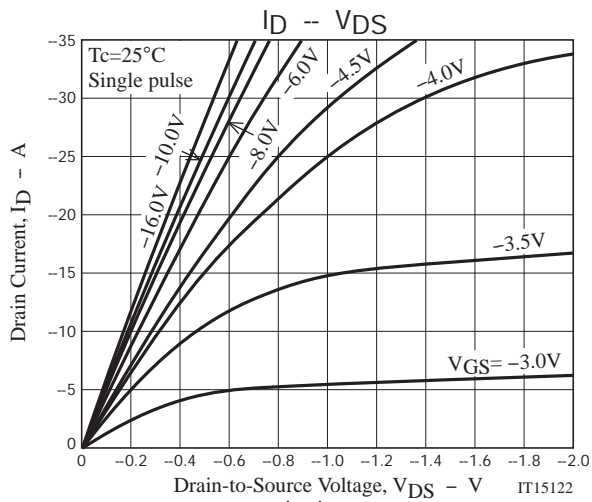
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =-1mA, V _{GS} =0V	-40			V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =-40V, V _{GS} =0V			-1	μA
Gate-to-Source Leakage Current	I _{GSS}	V _{GS} =±16V, V _{DS} =0V			±10	μA
Cutoff Voltage	V _{GS(off)}	V _{DS} =-10V, I _D =-1mA	-1.5		-2.6	V
Forward Transfer Admittance	y _{fs}	V _{DS} =-10V, I _D =-15A		28		S
Static Drain-to-Source On-State Resistance	R _{DS(on)1}	I _D =-15A, V _{GS} =-10V		19	25	mΩ
	R _{DS(on)2}	I _D =-8A, V _{GS} =-4.5V		29	41	mΩ
Input Capacitance	C _{iss}	V _{DS} =-20V, f=1MHz		1380		pF
Output Capacitance	C _{oss}			210		pF
Reverse Transfer Capacitance	C _{rss}			150		pF
Turn-ON Delay Time	t _{d(on)}			12		ns
Rise Time	t _r	See specified Test Circuit.		120		ns
Turn-OFF Delay Time	t _{d(off)}			110		ns
Fall Time	t _f			90		ns
Total Gate Charge	Q _g			29		nC
Gate-to-Source Charge	Q _{gs}	V _{DS} =-20V, V _{GS} =-10V, I _D =-30A		6.4		nC
Gate-to-Drain "Miller" Charge	Q _{gd}			5.9		nC
Diode Forward Voltage	V _{SD}		I _S =-30A, V _{GS} =0V		-0.97	-1.5

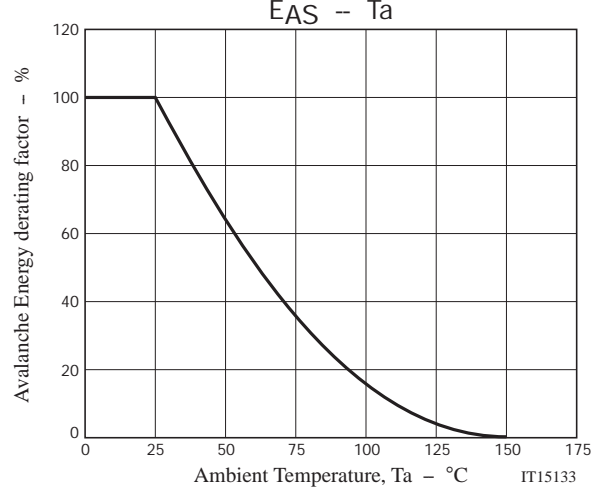
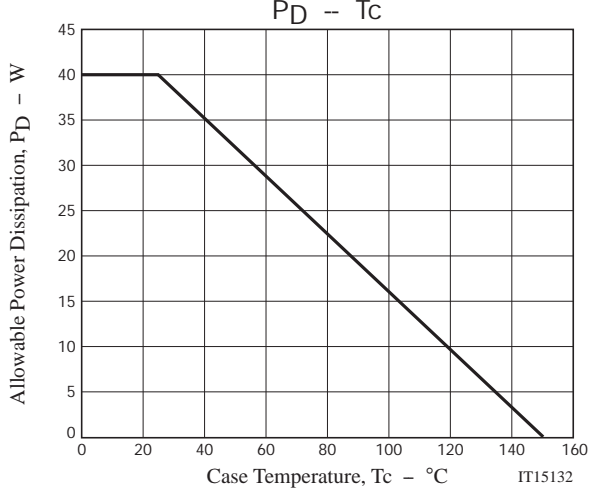
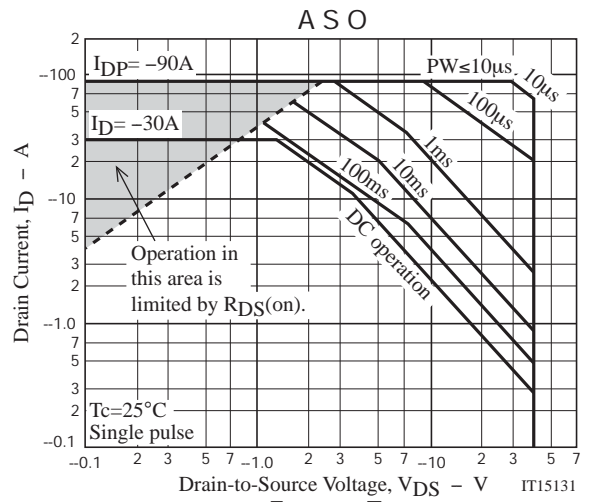
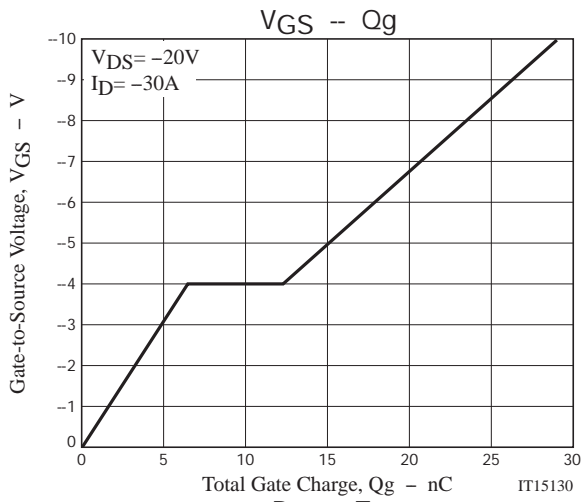
Switching Time Test Circuit



Ordering Information

Device	Package	Shipping	memo
ATP106-TL-H	ATPAK	3,000pcs./reel	Pb Free and Halogen Free





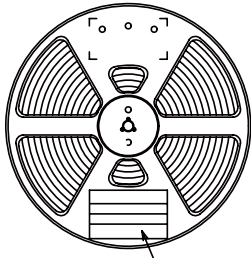
Taping Specification

ATP106-TL-H

1. Packing Format (TL)

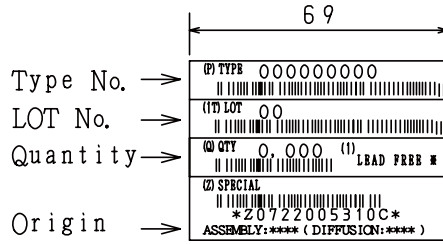
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	INNER BOX SD-C-18	OUTER BOX SD-A-18
ATPAK	ATP	3,000	3,000	15,000	1 reels contained Dimensions:mm (external) 340×340×28	5 inner boxes contained Dimensions:mm (external) 355×355×165

Packing method



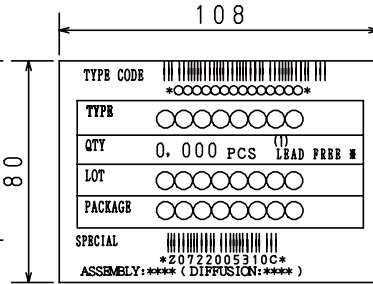
Reel label

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.



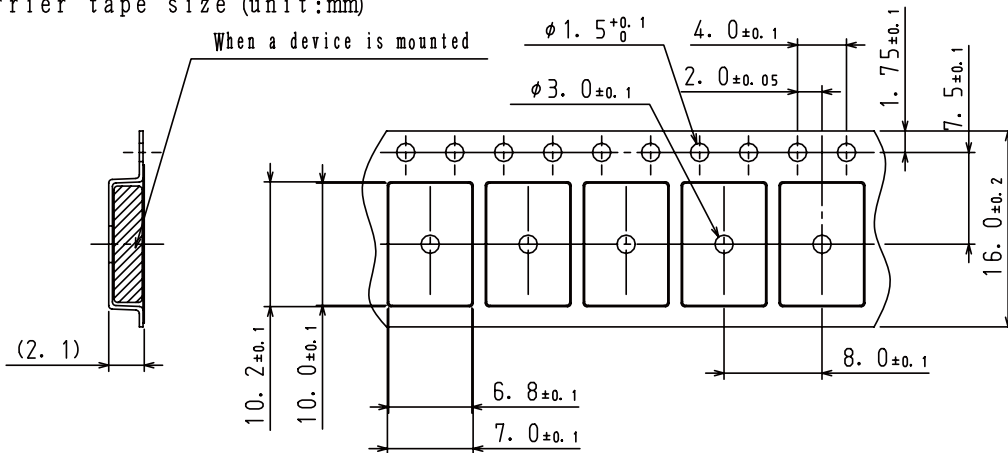
NOTE (1)

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

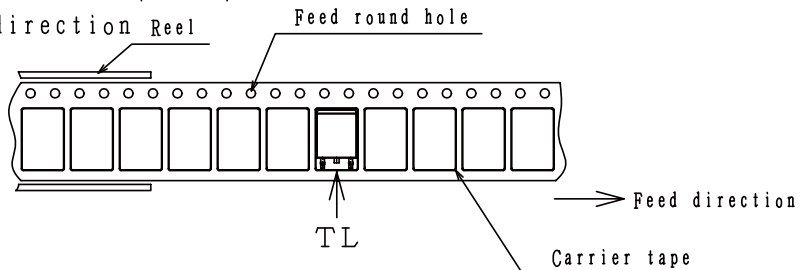
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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



2-2. Device placement direction Reel

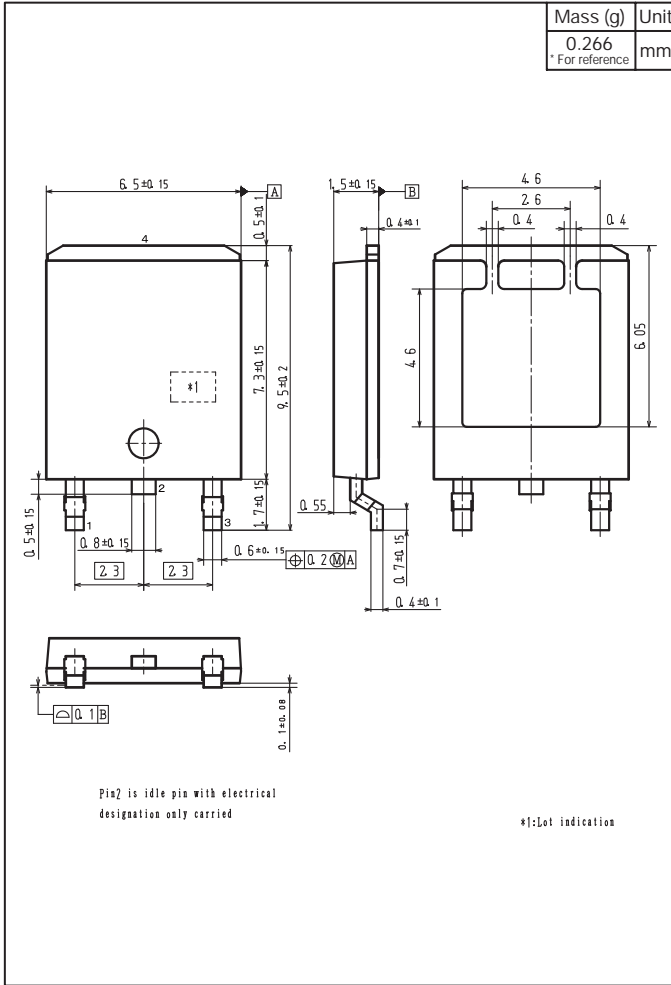


The one electrode terminals on feed hole side...TL

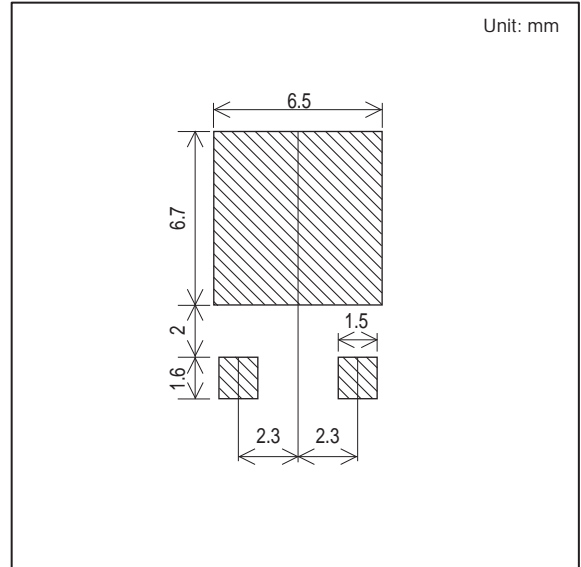
ATP106

Outline Drawing

ATP106-TL-H



Land Pattern Example



Note on usage : Since the ATP106 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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