

TND524VS

Recommend Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
High Side Floating Supply Voltage	V _H		V _S +10 to V _S +20	V
High Side Floating Supply Offset Voltage	V _S	V _{DD} =V _{HS} =15V	-5 to 600	V
High Side Output Voltage	V _{HOUT}		V _S to V _H	V
Logic Supply Voltage	V _{DD}		+10 to +20	V
Logic Input Voltage	V _{HIN}		0 to V _{DD}	V
Ambient Temperature	T _{opr}		-40 to +125	°C

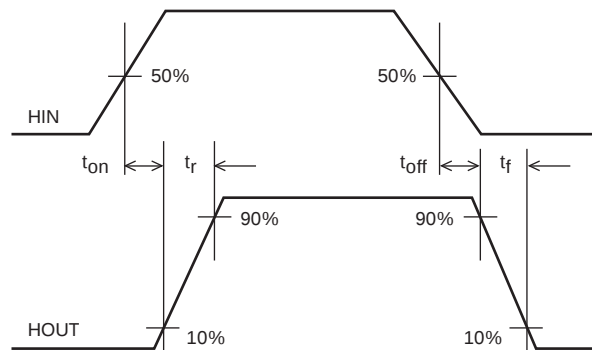
AC Characteristics at Ta=25°C (V_{DD}=V_{HS}=15V, C_L=1000pF)

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Turn-ON Delay Time	t _{on}	V _S =0V	60	90	120	ns
Turn-OFF Delay Time	t _{off}	V _S =0V	55	85	115	ns
Turn-ON Rise Time	t _r		50	80	110	ns
Turn-OFF Fall Time	t _f		20	35	55	ns

DC Characteristics at Ta=25°C (V_{DD}=V_{HS}=15V)

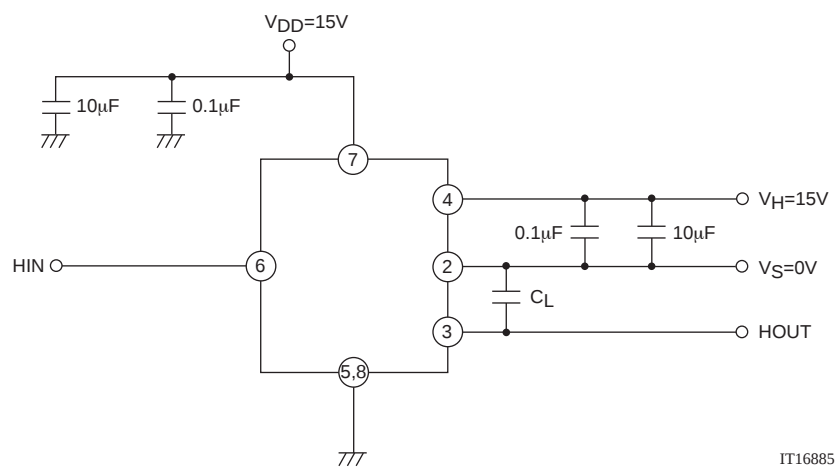
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Logic "1" Input Voltage	V _{IH}	V _{DD} =10 to 20V	3.0			V
Logic "0" Input Voltage	V _{IL}	V _{DD} =10 to 20V			0.8	V
High-level Output Voltage, V _{BIAS} -V _O	V _{OH}	V _{HIN} =V _{IH} , I _O =0A			0.1	V
Low-level Output Voltage, V _O	V _{OL}	V _{HIN} =V _{IL} , I _O =0A			0.1	V
Offset Supply Leakage Current	I _{LK}	V _H =V _S =600V			10	μA
Quiescent V _H Supply Current	I _{QH}	V _{HIN} =0V or V _{DD}		70	120	μA
Quiescent V _{DD} Supply Current	I _{QDD}	V _{HIN} =0V or V _{DD}		140	230	μA
Logic "1" Input Bias Current	I _{IN+}	V _{HIN} =V _{DD}		20	55	μA
Logic "0" Input Bias Current	I _{IN-}	V _{HIN} =0V			1	μA
V _H Supply Undervoltage Positive Going Threshold	V _{HUV+}		7.6	8.9	9.9	V
V _H Supply Undervoltage Negative Going Threshold	V _{HUV-}		6.7	8.1	9.5	V
V _{DD} Supply Undervoltage Positive Going Threshold	V _{DDUV+}		7.6	8.9	9.9	V
V _{DD} Supply Undervoltage Negative Going Threshold	V _{DDUV-}		6.7	8.1	9.5	V
Output High Short Circuit Pulsed Current	I _{O+}	V _{HOUT} =0V, V _{HIN} =15V, PW≤10μs	170	200		mA
Output Low Short Circuit Pulsed Current	I _{O-}	V _{HOUT} =15V, V _{HIN} =0V, PW≤10μs	340	400		mA

Switching Time Waveform Definition



TND524VS

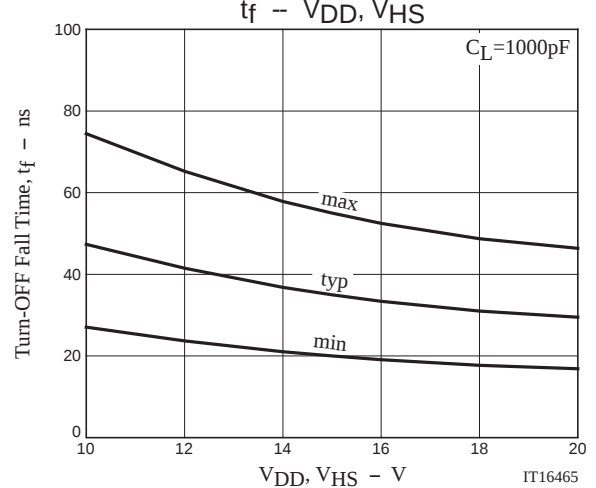
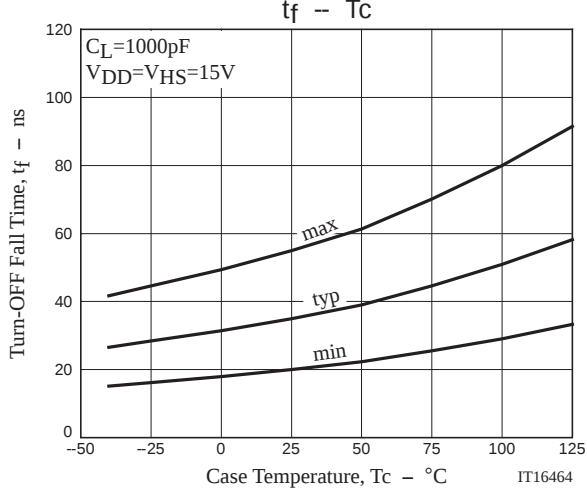
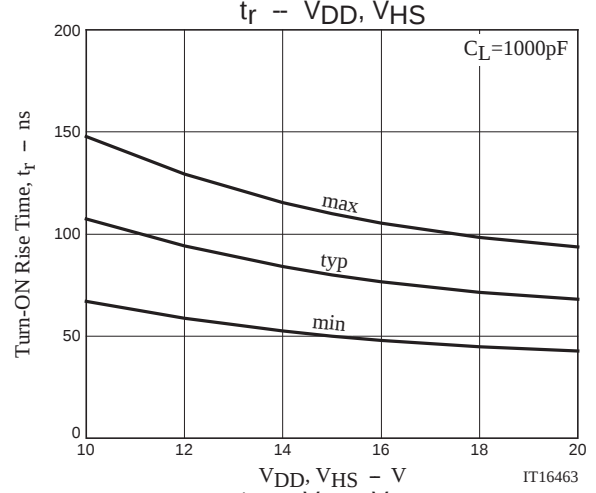
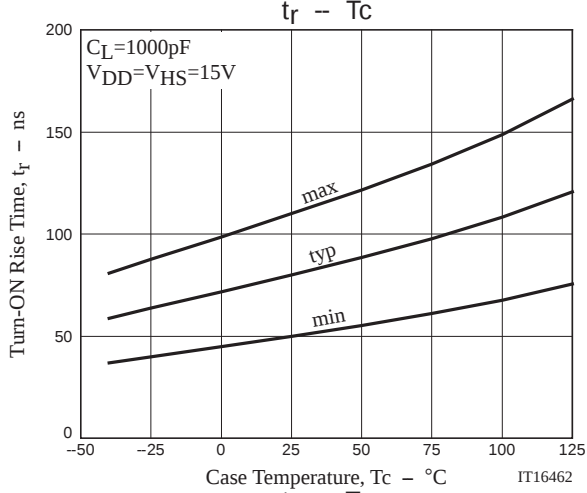
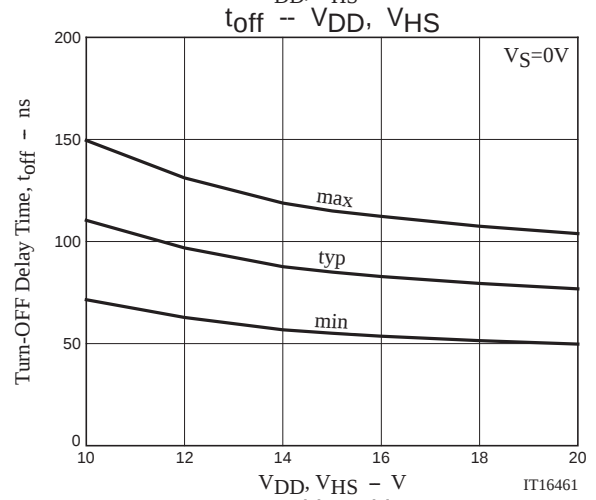
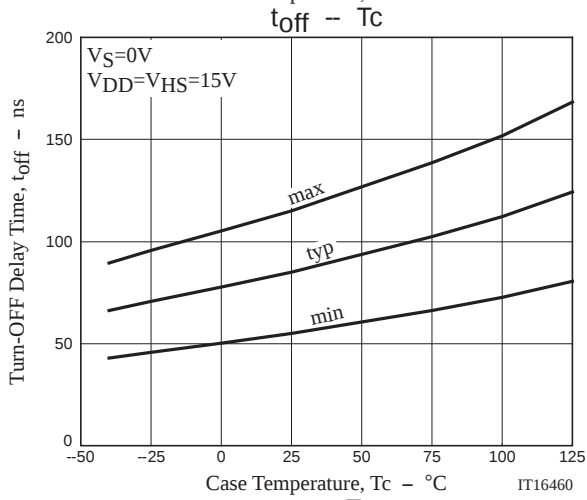
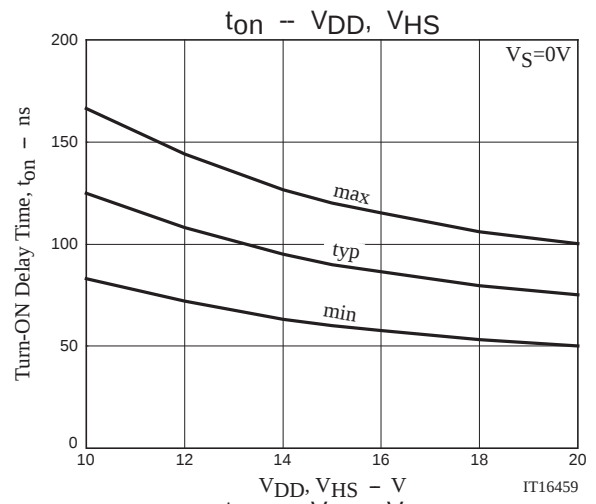
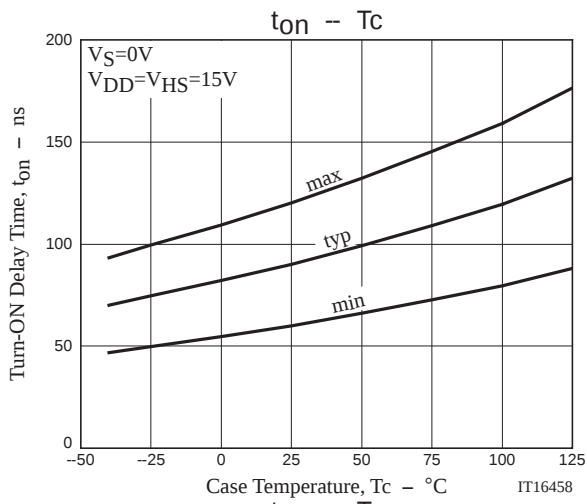
Switching Time Test Circuit

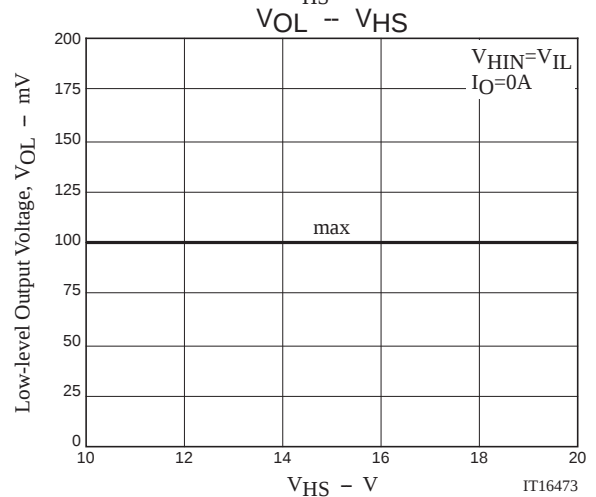
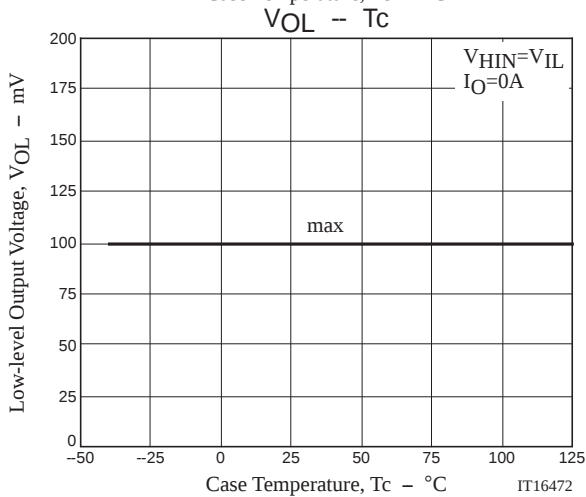
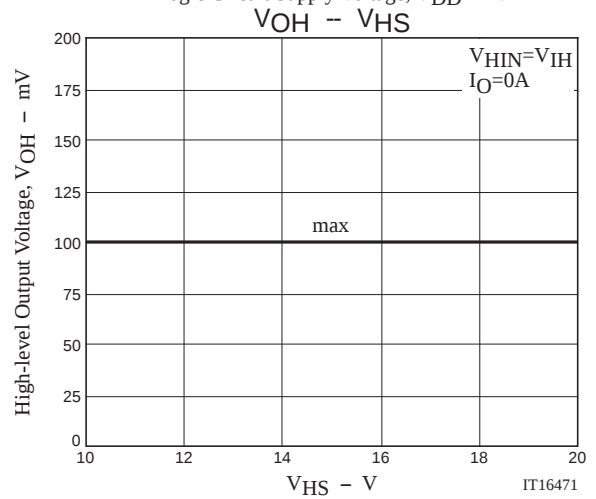
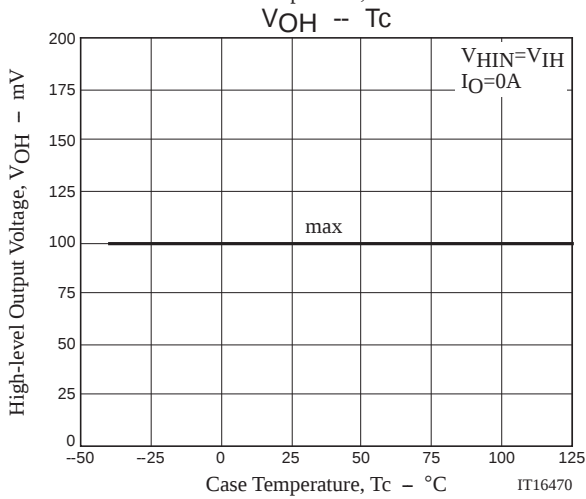
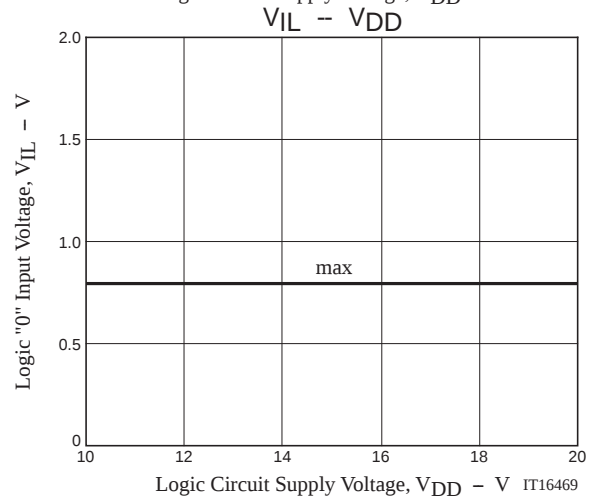
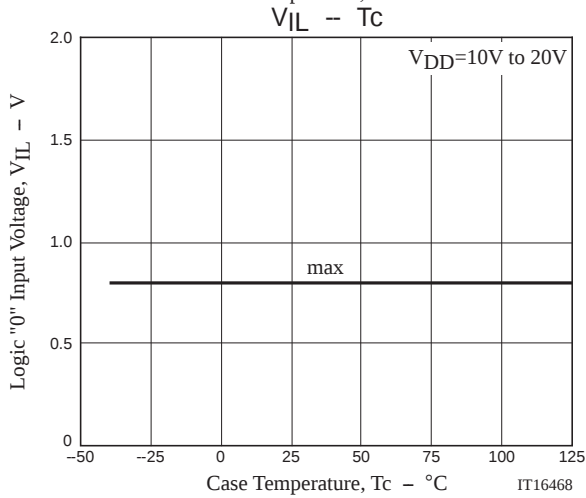
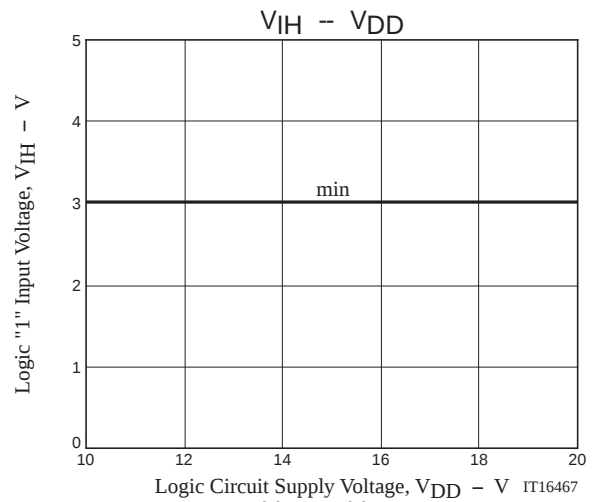
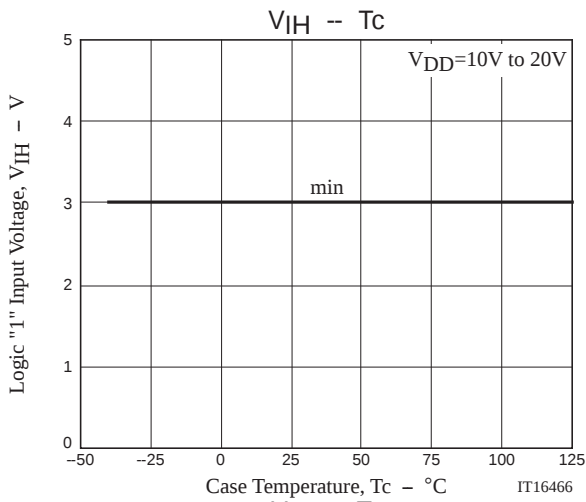


Ordering Information

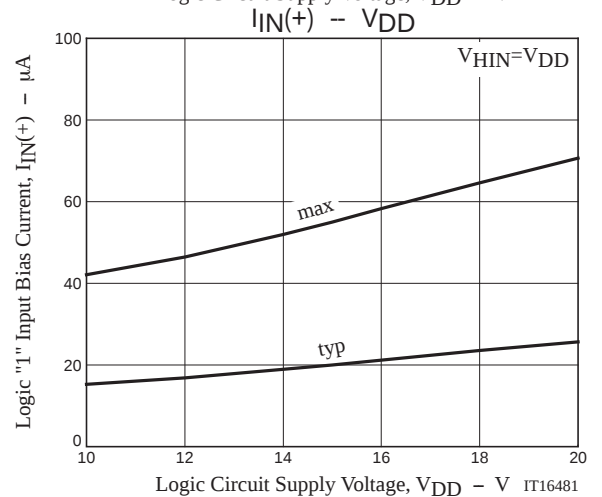
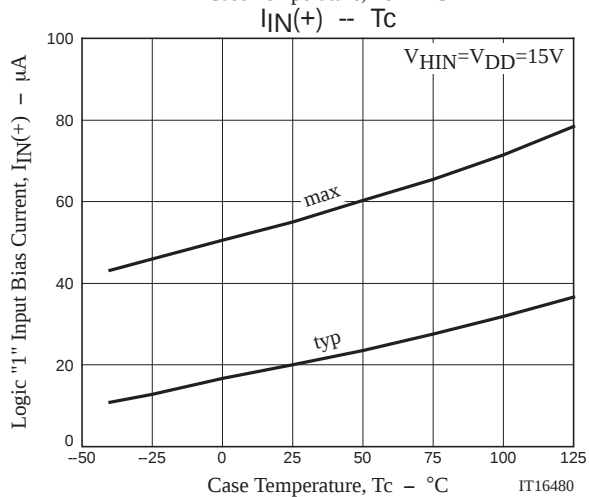
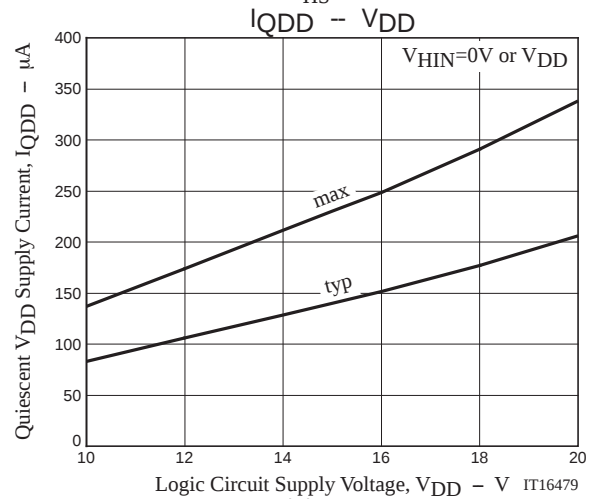
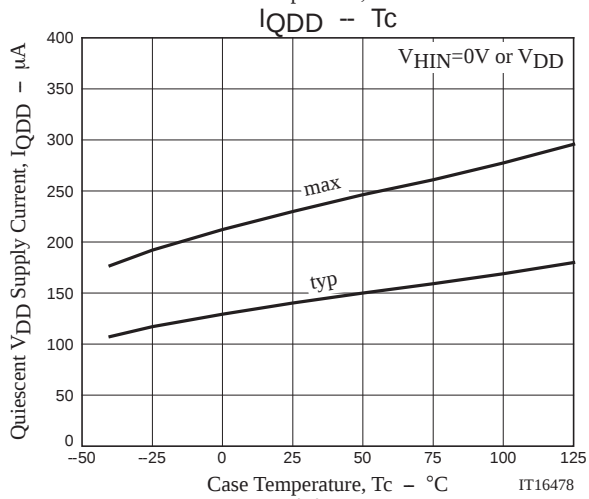
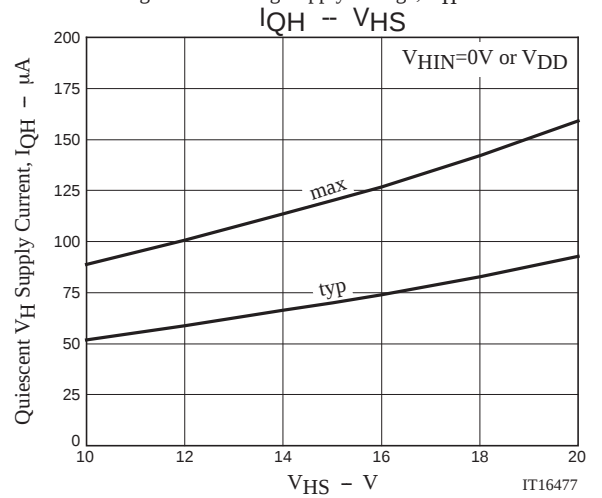
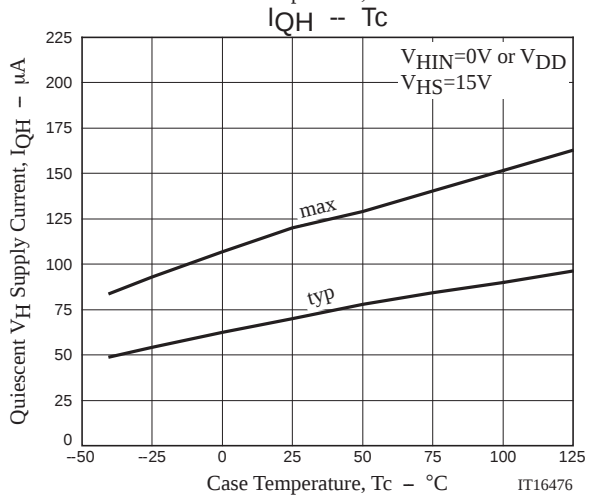
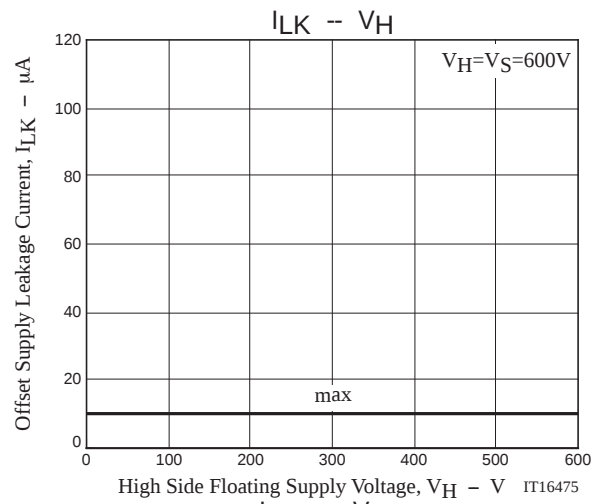
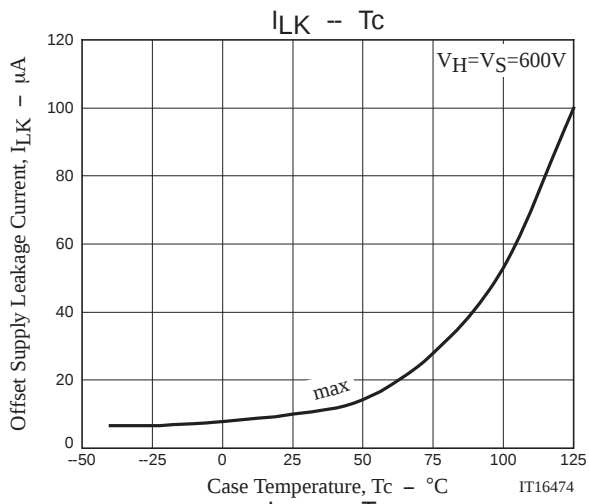
Device	Package	Shipping	memo
TND524VS-TL-H	VEC8	3,000pcs./reel	Pb Free and Halogen Free

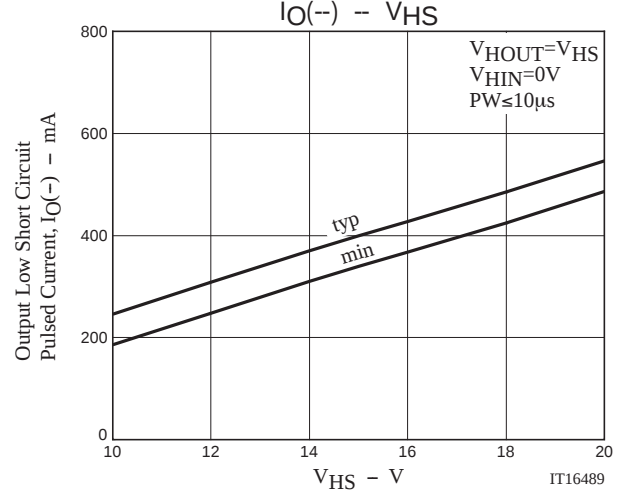
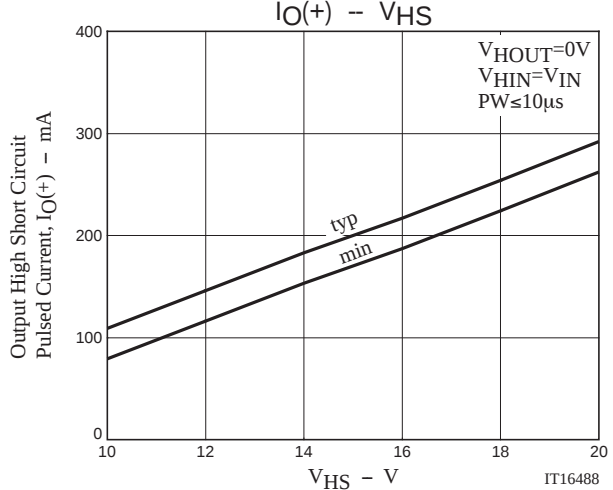
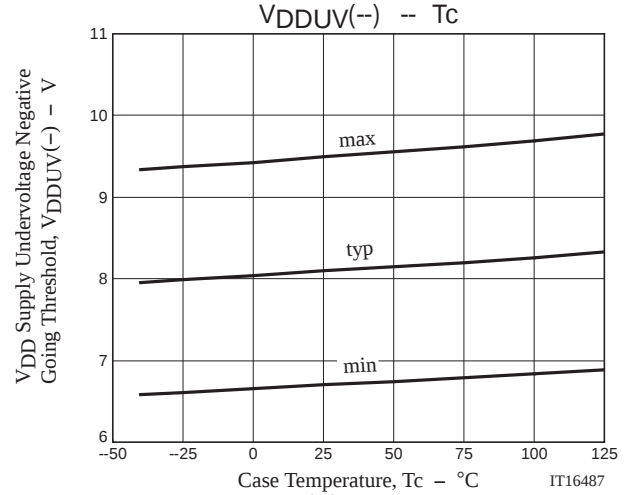
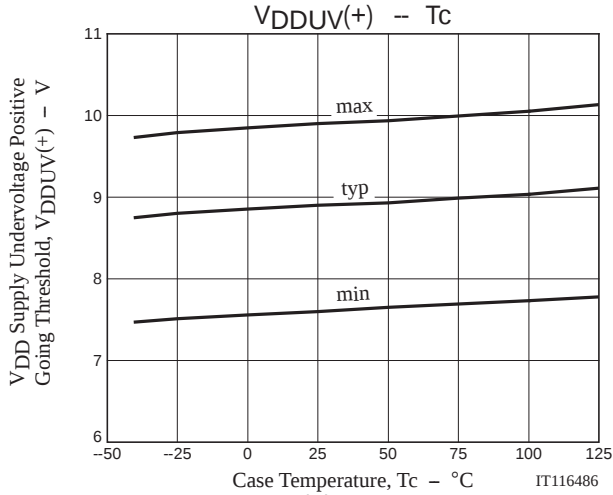
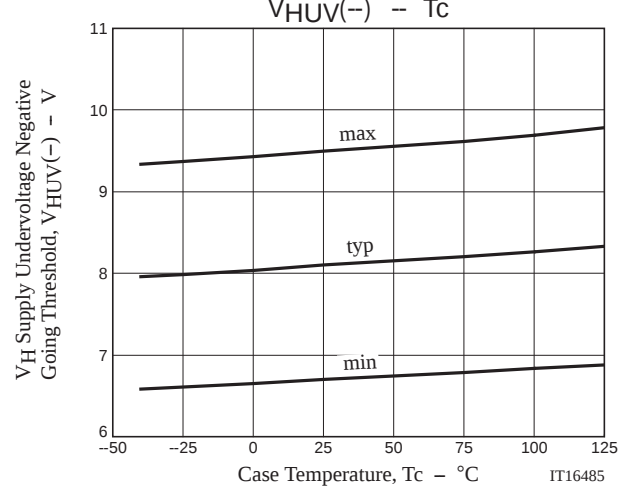
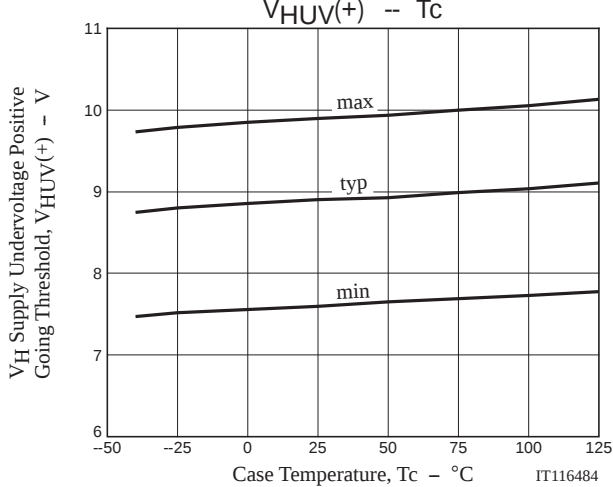
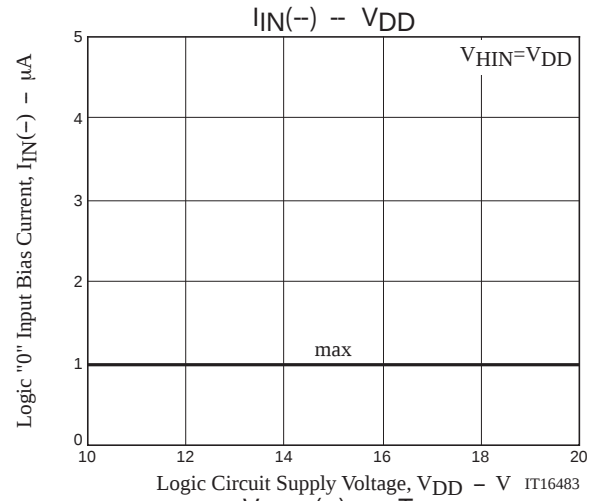
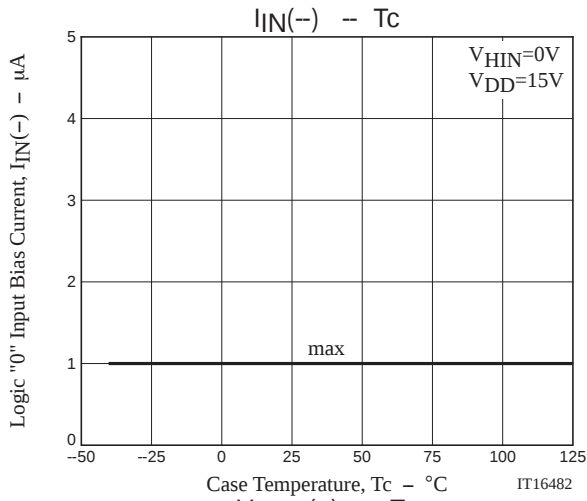
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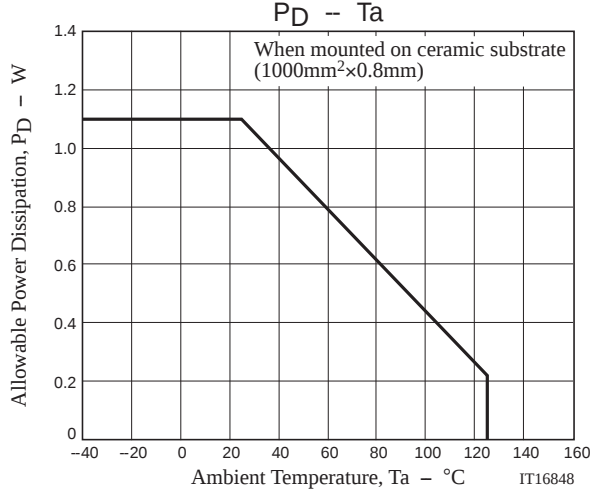
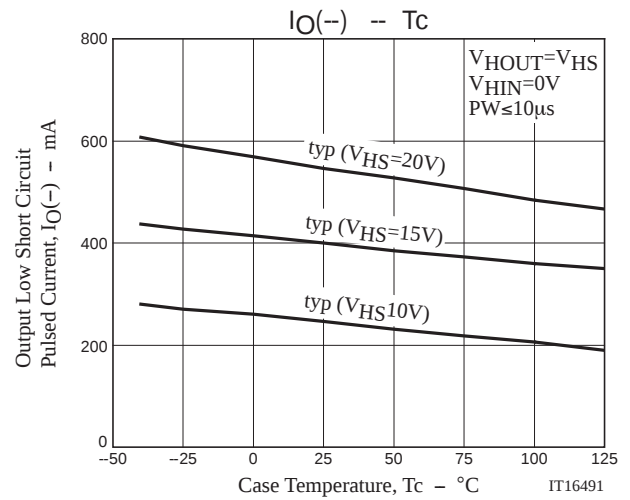
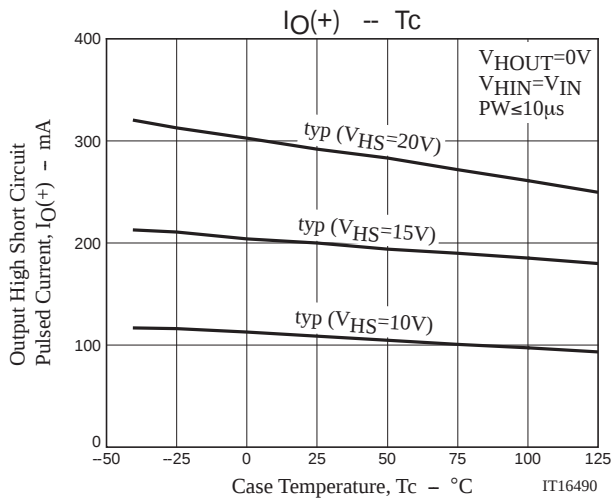




TND524VS







Taping Specification

TND524VS-TL-H

1. Packing Format

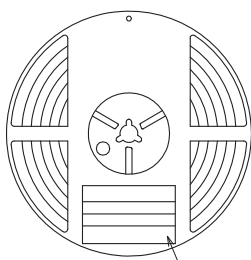
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
VEC8	CPH6	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

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.

Packing method



Reel label

Type No.
LOT No.
Quantity
Origin

69	
(P) TYPE 000000000	
(1) LOT 00	
(Q) QTY 0,000 (1) LEAD FREE *	
(Z) SPECIAL	
Z0722005310C	
ASSEMBLY:**** (DIFFUSION:****)	

108	
TYPE CODE	
00000000000	
TYPE	
QTY 0,000 PCS (1) LEAD FREE *	
LOT	
PACKAGE	
SPECIAL	
Z0722005310C	
ASSEMBLY:**** (DIFFUSION:****)	

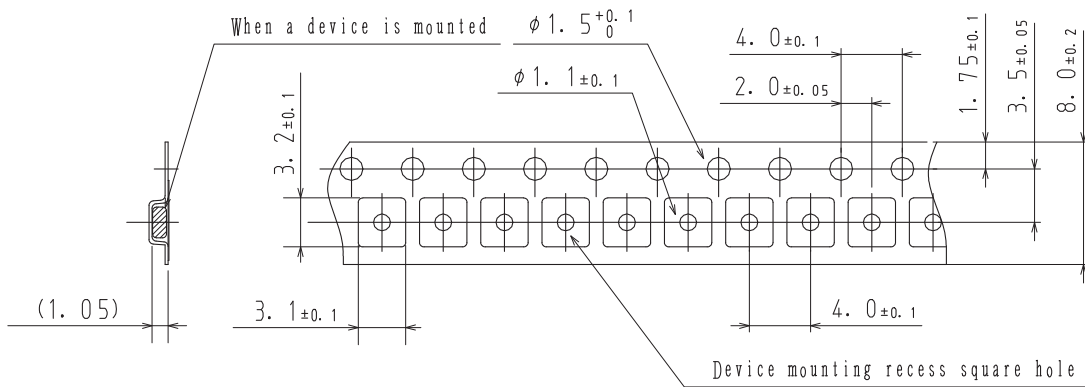
NOTE (1)

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

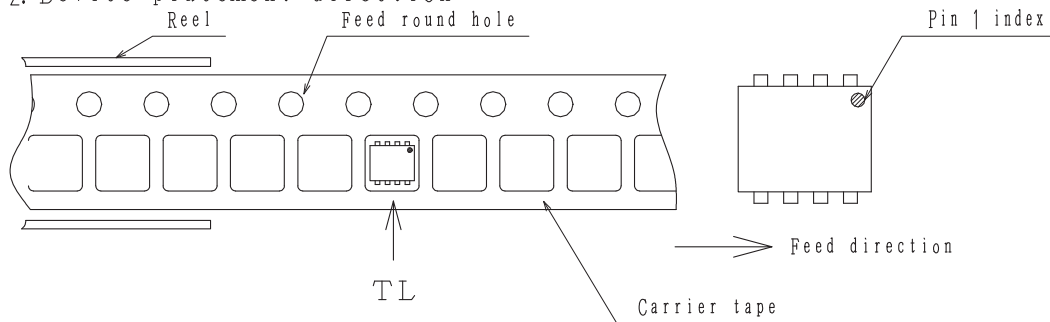
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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

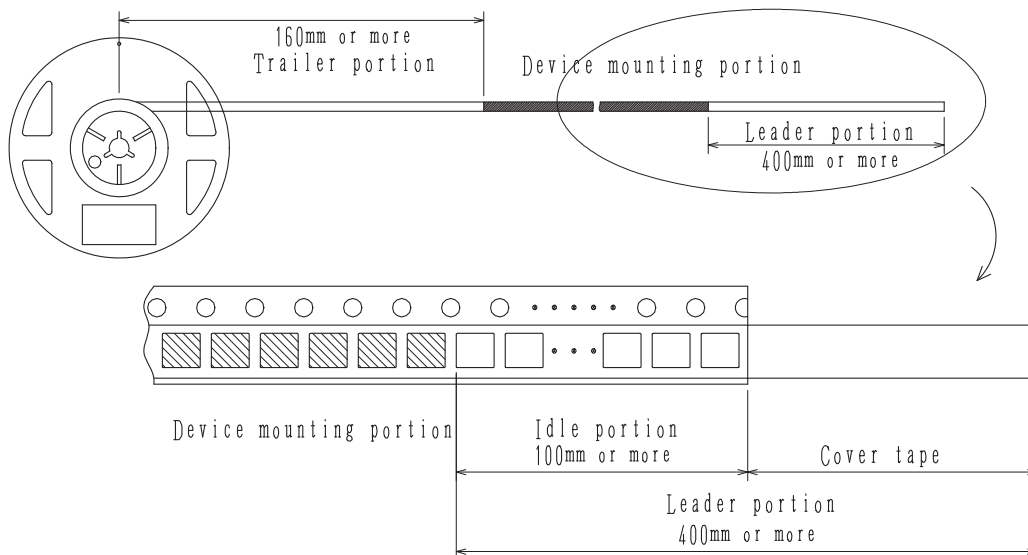


2-2. Device placement direction



Those with oen electrode terminal on the feed hole side.....TL

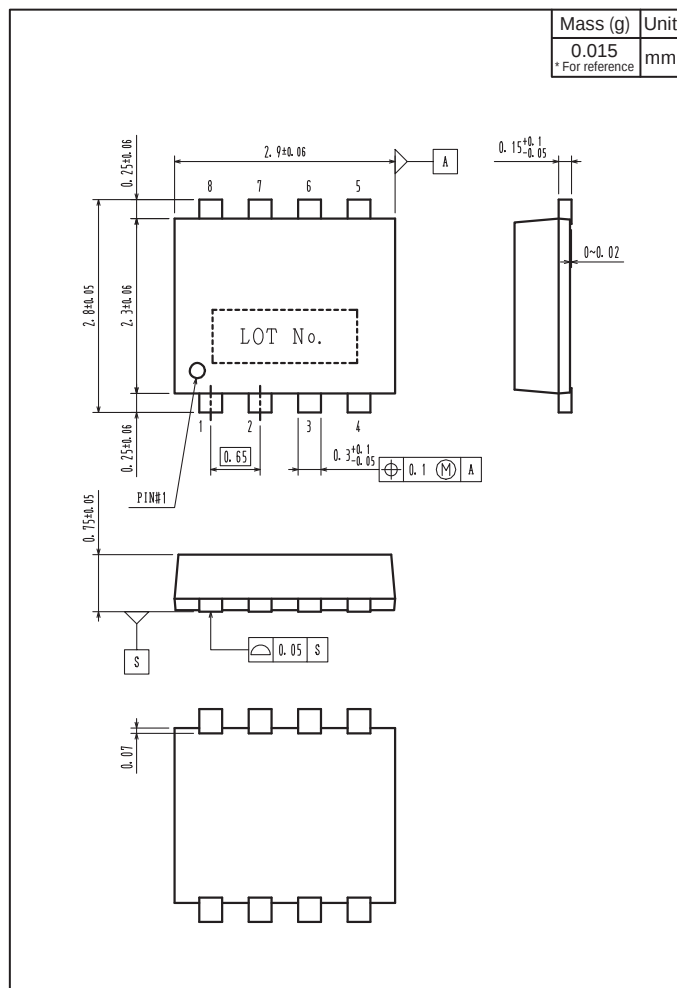
2-3. Leader portion and trailer portion (unit:mm)



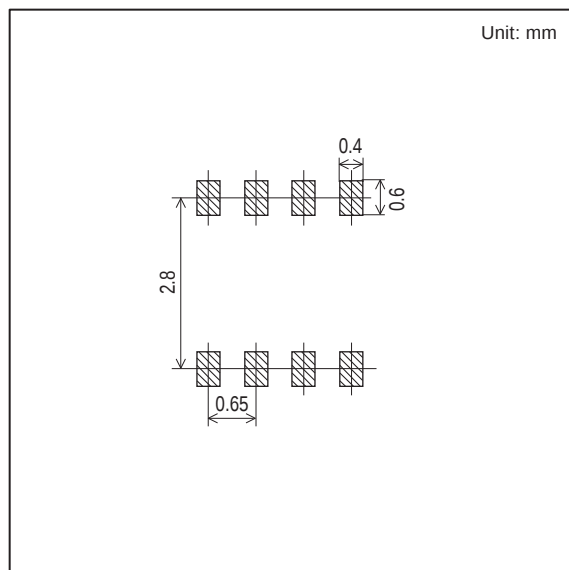
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Outline Drawing

TND524VS-TL-H



Land Pattern Example



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