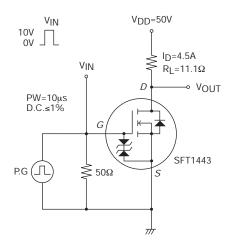
Electrical Characteristics at Ta=25°C

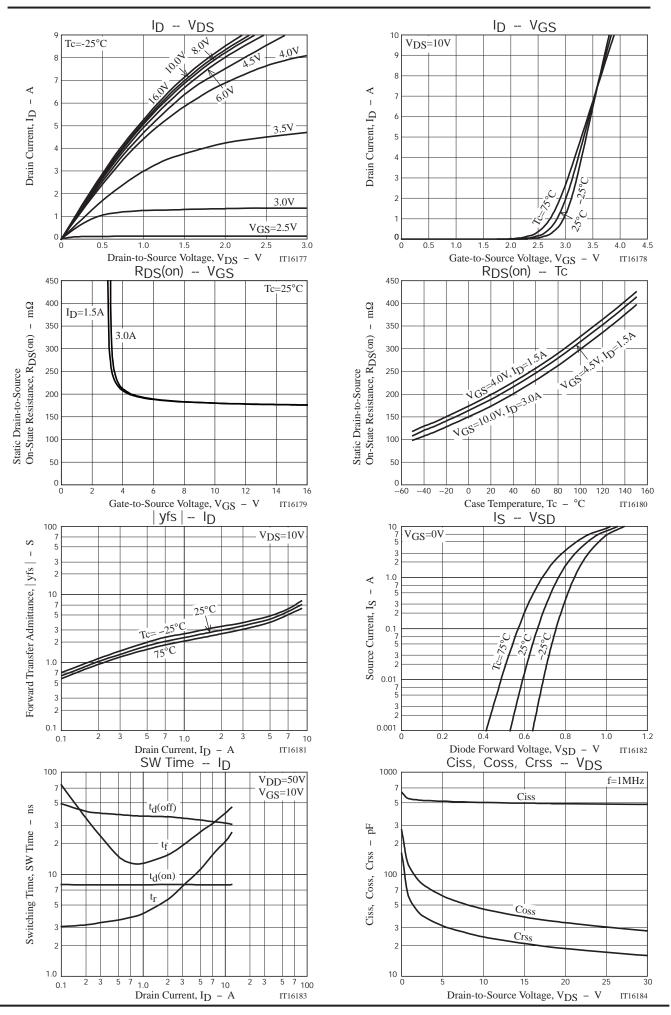
Parameter	Symbol	Conditions	Ratings			Unit
Parameter	Symbol	Conditions	min	typ	max	UIIIL
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	100			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =100V, V _{GS} =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1mA	1.5		2.6	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =4.5A		4		S
	R _{DS} (on)1	I _D =3A, V _{GS} =10V		180	225	$m\Omega$
Static Drain-to-Source On-State Resistance	R _{DS} (on)2	I _D =1.5A, V _{GS} =4.5V		195	275	$m\Omega$
	R _{DS} (on)3	I _D =1.5A, V _{GS} =4V		205	290	mΩ
Input Capacitance	Ciss			490		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		34		pF
Reverse Transfer Capacitance	Crss			19		pF
Turn-ON Delay Time	t _d (on)			8		ns
Rise Time	t _r	Con appointed Tool Circuit		10		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		34		ns
Fall Time	t _f			24		ns
Total Gate Charge	Qg			9.8		nC
Gate-to-Source Charge	Qgs	$V_{DS} = 50V$, $V_{GS} = 10V$, $I_{D} = 9A$		1.8		nC
Gate-to-Drain "Miller" Charge	Qgd]		1.6		nC
Diode Forward Voltage	V _{SD}	I _S =9A, V _{GS} =0V		1.03	1.2	V

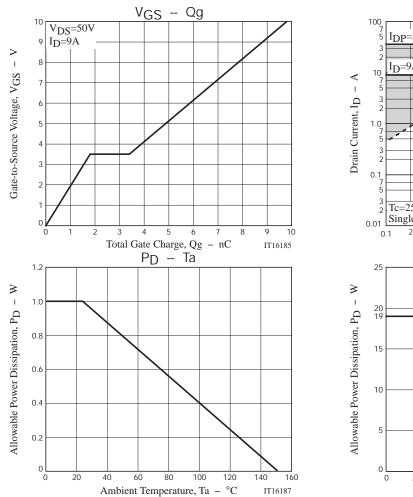
Switching Time Test Circuit

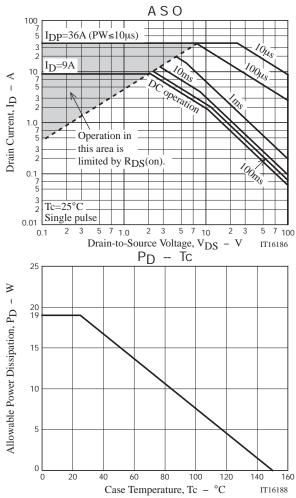


Ordering Information

Device	Package	Shipping	memo
SFT1443-H	TP	500pcs./bag	Db Froe and Halogen Free
SFT1443-TL-H	TP-FA	700pcs./reel	Pb Free and Halogen Free





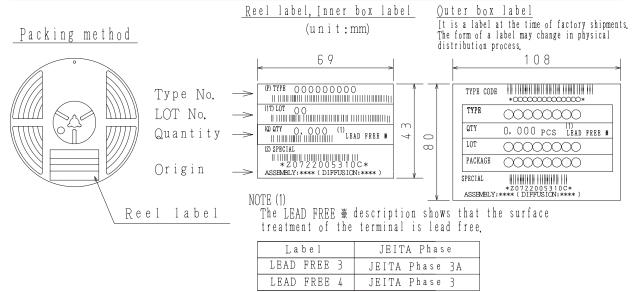


Taping Specification

SFT1443-TL-H

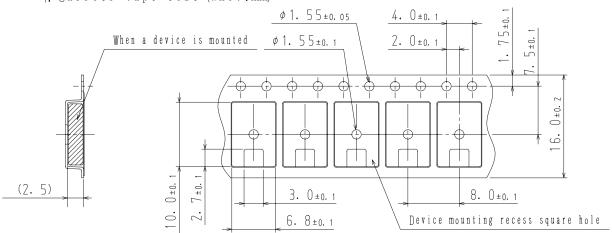
Packing Format

Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format		
	Туре	Reel	Inner box	Outer box	Inner $BOX(C-1)$	Outer BOX (A-7)	
TP-FA	TP	700	2, 100	12, 600	3 reels contained	6 inner boxes contained	
					Dimensions:mm (external)	Dimensions:mm (external)	
					183×72×185	440×195×210	

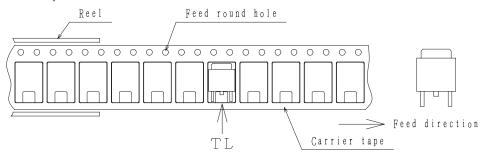


Taping configuration

1. Carrier tape size (unit:mm)



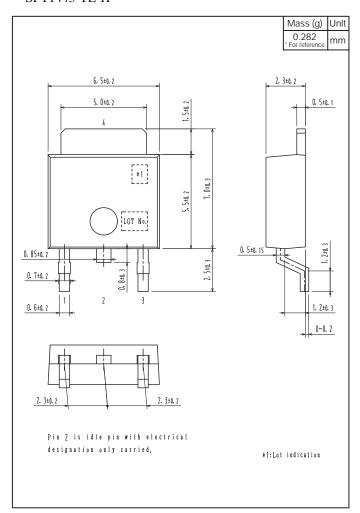
7. Device placement direction

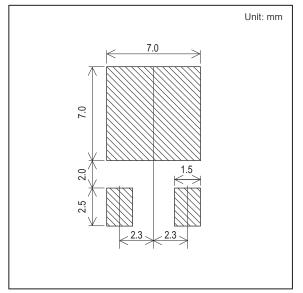


Those with one electrode terminal on the feed hole side·····TL

Outline Drawing SFT1443-TL-H

Land Pattern Example





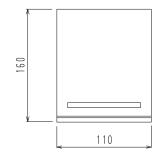
Bag Packing Specification

SFT1443-H

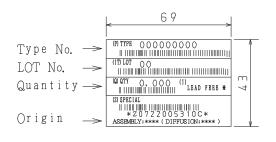
1. Packing Format

Package Name		Maximum Number of devices contained (pcs)					
I donago Mamo	Вад	g Inner box Outer box		рох			
TP		B-1	A-1	A-2			
1 1 1	500	10,000	50,000	30,000			
		Packing format (Dimensions:mm (external))					
		Inner box Outer box					
		B-1	A-1	A-2			
		445×225×55	470×250×300	470×250×190			

2. Bag dimensions (unit:mm)





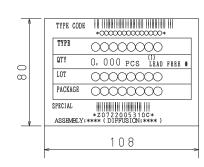


4. Outer box label (unit:mm)

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

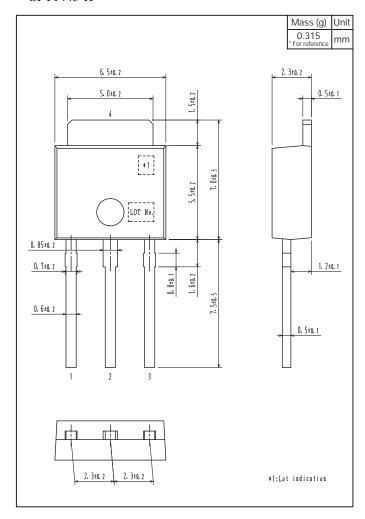


Lab	e l	JEITA Phase
LEAD F	REE 3	JEITA Phase 3A
LEAD F	REE 4	JEITA Phase 3



Outline Drawing

SFT1443-H



Note on usage: Since the SFT1443 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

ON Semiconductor and the ON logo are registered trademarks of Semiconductor Components Industries, LLC (SCILLC). SCILLC owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of SCILLC's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent regarding the design or manufacture of the part. SCILLC is an Equa