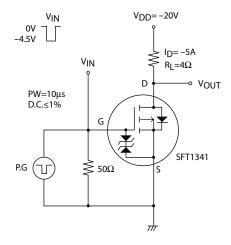
## SFT1341

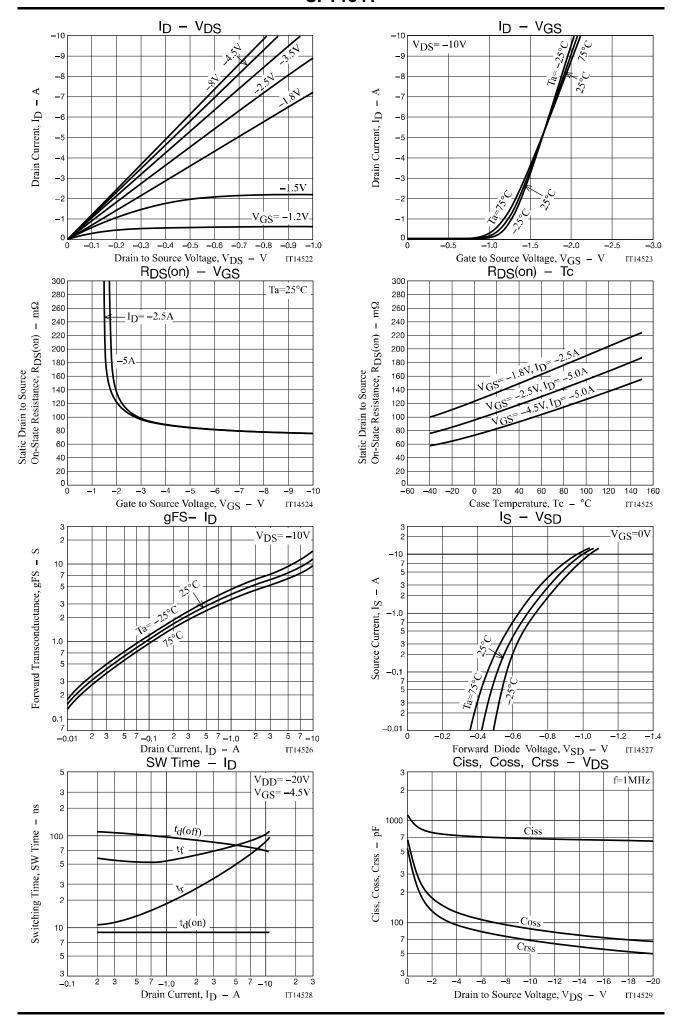
#### **Electrical Characteristics** at Ta = 25°C

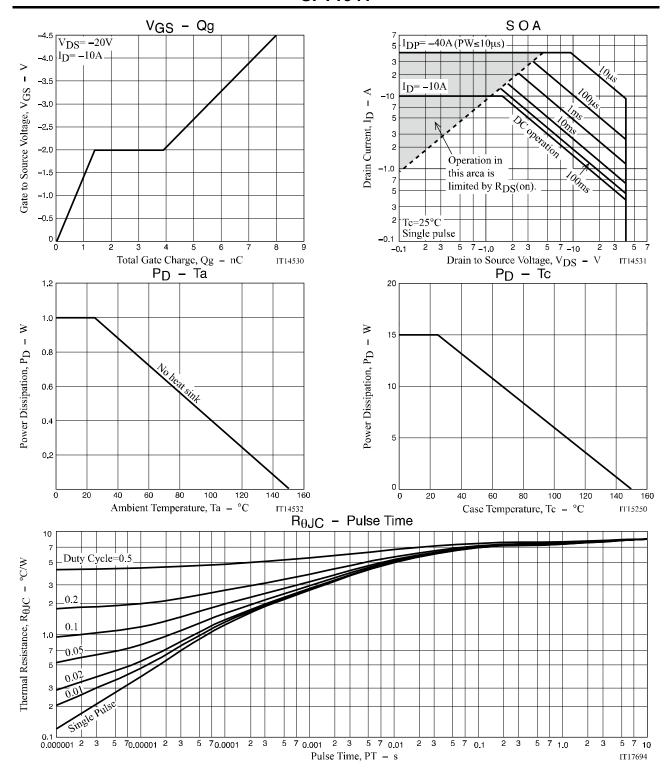
B	Symbol	0 1111	Value			
Parameter		Conditions	min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DSS	I <sub>D</sub> = -1mA, V <sub>G</sub> S=0V	-40			V
Zero-Gate Voltage Drain Current	IDSS	V <sub>DS</sub> = -40V, V <sub>GS</sub> =0V			-1	μΑ
Gate to Source Leakage Current	IGSS	V <sub>GS</sub> =±8V, V <sub>DS</sub> =0V			±10	μΑ
Gate Threshold Voltage	V <sub>GS</sub> (th)	V <sub>DS</sub> = -10V, I <sub>D</sub> = -1mA -0.4			-1.4	>
Forward Transconductance	9FS	V <sub>DS</sub> = -10V, I <sub>D</sub> = -5A	4.6	7.7		S
Static Drain to Source On-State Resistance	R <sub>DS</sub> (on)1	I <sub>D</sub> = -5A, V <sub>G</sub> S= -4.5V		86	112	mΩ
	R <sub>DS</sub> (on)2	I <sub>D</sub> = -5A, V <sub>G</sub> S= -2.5V		110	154	mΩ
	R <sub>DS</sub> (on)3	I <sub>D</sub> = -2.5A, V <sub>G</sub> S= -1.8V		140	210	mΩ
Input Capacitance	Ciss			650		pF
Output Capacitance	Coss	V <sub>DS</sub> = -20V, f=1MHz		65		pF
Reverse Transfer Capacitance	Crss			50		pF
Turn-ON Delay Time	t <sub>d</sub> (on)			9.0		ns
Rise Time	t <sub>r</sub>	0		50		ns
Turn-OFF Delay Time	t <sub>d</sub> (off)	See specified Test Circuit.		81		ns
Fall Time	tf			80		ns
Total Gate Charge	Qg			8.0		nC
Gate to Source Charge	Qgs	V <sub>DS</sub> = -20V, V <sub>GS</sub> = -4.5V, I <sub>D</sub> = -10A		1.4		nC
Gate to Drain "Miller" Charge	Qgd	7		2.5		nC
Forward Diode Voltage	V <sub>SD</sub>	I <sub>S</sub> = -10A, V <sub>GS</sub> =0V		-1.0	-1.5	V

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

# **Switching Time Test Circuit**







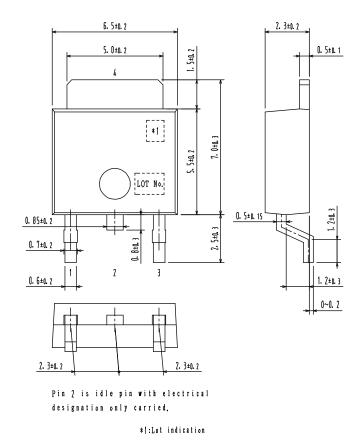
# **Package Dimensions** SFT1341-TL-E/SFT1341-TL-W

## DPAK/TP-FA

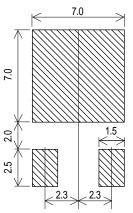
unit: mm



- 1:Gate
- 2:Drain
- 3:Source
- 4:Drain



# Recommended **Soldering Footprint**



## **Package Dimensions**

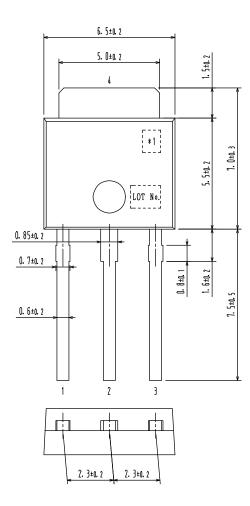
SFT1341-E/SFT1341-W

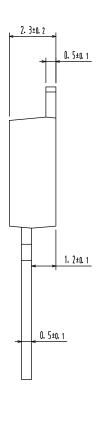
#### **IPAK/TP**

Unit: mm



- 1:Gate
- 2:Drain
- 3:Source
- 4:Drain





\*1:Lot indication

#### **Ordering & Package Information**

Device	Package	Shipping	Note	
SFT1341-E	IPAK(TP)		Pb-Free	
SFT1341-W	SC-64 TO-251	500pcs. / bag	Pb-Free and Halogen Free	
SFT1341-TL-E	DPAK(TP-FA)		Pb-Free	
SFT1341-TL-W	SC-63 TO-252	700pcs. / reel	Pb-Free and Halogen Free	

Note on usage: Since the SFT1341 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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