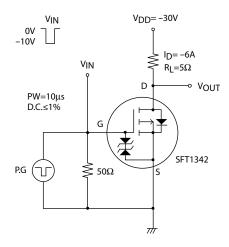
SFT1342

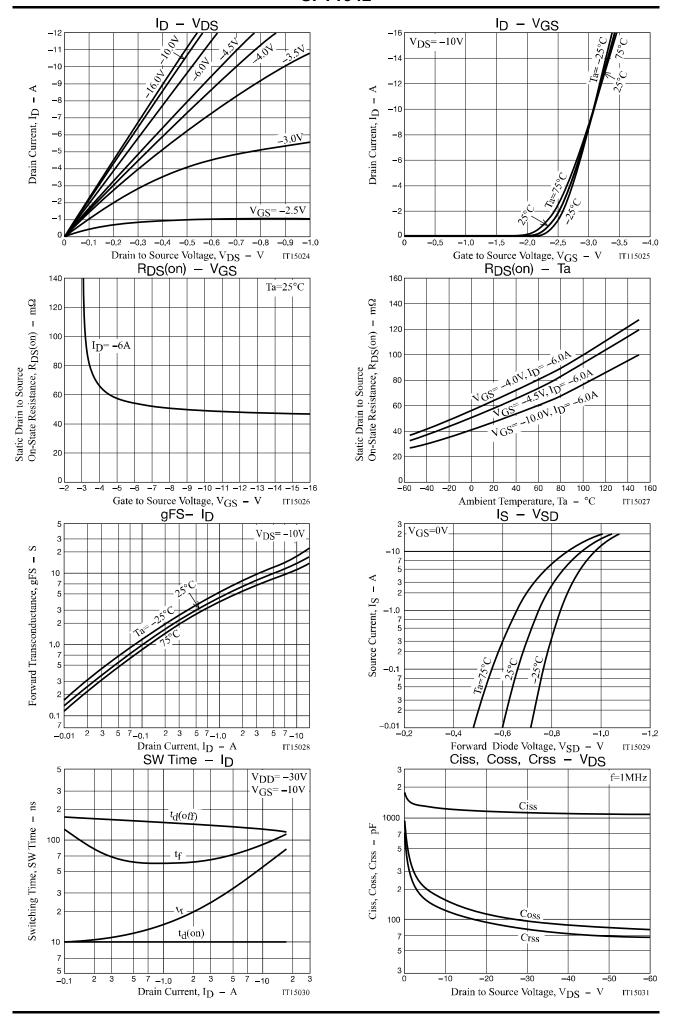
Electrical Characteristics at Ta = 25°C

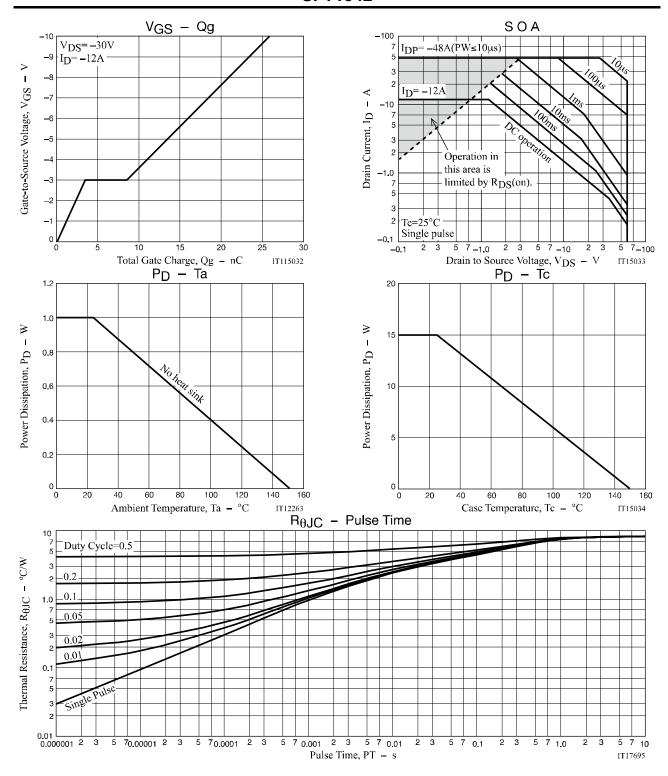
Parameter	O. made ad	0 151	Value			11-3
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DSS	I _D = -1mA, V _{GS} =0V	-60			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} = -60V, V _{GS} =0V			-1	μΑ
Gate to Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μΑ
Gate Threshold Voltage	V _{GS} (th)	V _{DS} = -10V, I _D = -1mA -1.2			-2.6	V
Forward Transconductance	gFS	V _{DS} = -10V, I _D = -6A		11		S
Static Drain to Source On-State Resistance	R _{DS} (on)1	I _D = -6A, V _G S= -10V		47	62	mΩ
	R _{DS} (on)2	I _D = -6A, V _G S= -4.5V		62	87	mΩ
	R _{DS} (on)3	I _D = -6A, V _G S= -4V		68	96	mΩ
Input Capacitance	Ciss			1150		pF
Output Capacitance	Coss	V _{DS} = -20V, f=1MHz		115		pF
Reverse Transfer Capacitance	Crss			95		pF
Turn-ON Delay Time	t _d (on)			10		ns
Rise Time	t _r	7		37		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		135		ns
Fall Time	tf			75		ns
Total Gate Charge	Qg			26		nC
Gate to Source Charge	Qgs	V _{DS} = -30V, V _{GS} = -10V, I _D = -12A		3.5		nC
Gate to Drain "Miller" Charge	Qgd	1		5		nC
Forward Diode Voltage	V _{SD}	I _S = -12A, V _{GS} =0V		-0.95	-1.2	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







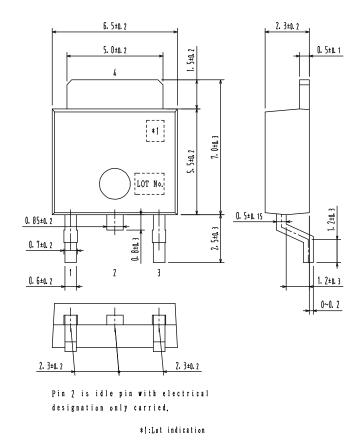
Package Dimensions SFT1342-TL-E/ SFT1342-TL-W

DPAK/TP-FA

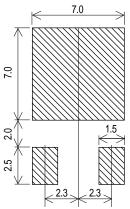
unit: mm



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



Recommended **Soldering Footprint**



Package Dimensions

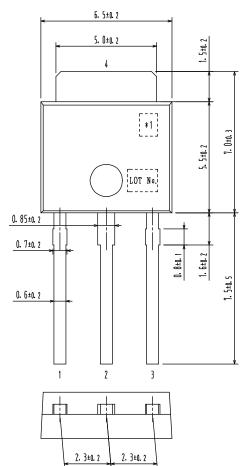
SFT1342-E/ SFT1342-W

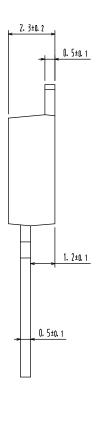
IPAK/TP

Unit: mm



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





*1:Lot indication

Ordering & Package Information

Device	Package	Shipping	Note	
SFT1342-E	IPAK(TP)		Pb-Free	
SFT1342-W	SC-64,TO-251	500pcs. / bag	Pb-Free and Halogen Free	
SFT1342-TL-E	DPAK(TP-FA)	700pcs. / reel	Pb-Free	
SFT1342-TL-W	1342-TL-W SC-63,TO-252		Pb-Free and Halogen Free	

Note on usage: Since the SFT1342 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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