

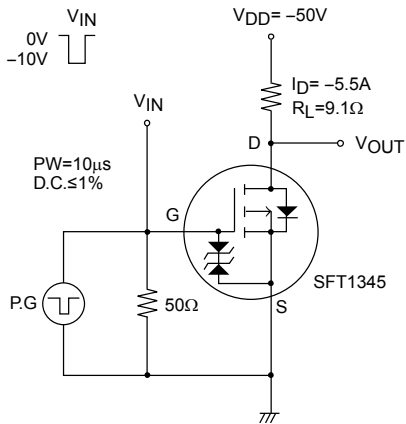
# SFT1345

## ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 3)

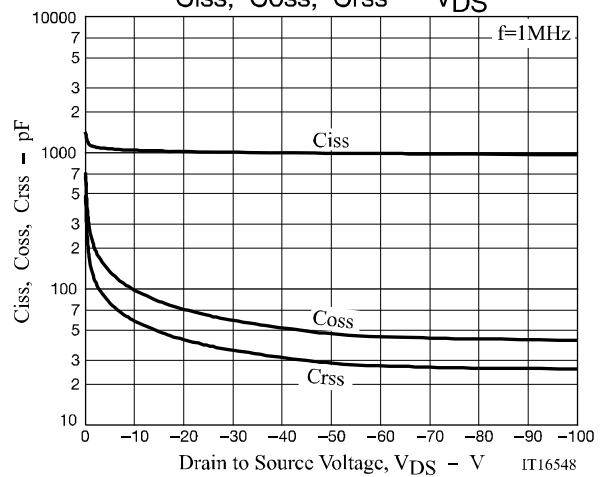
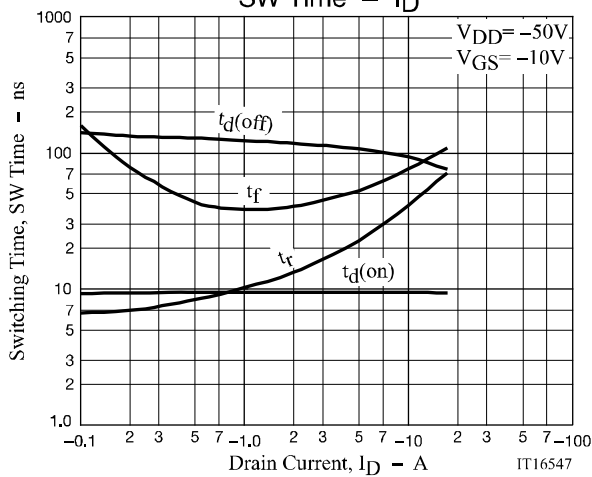
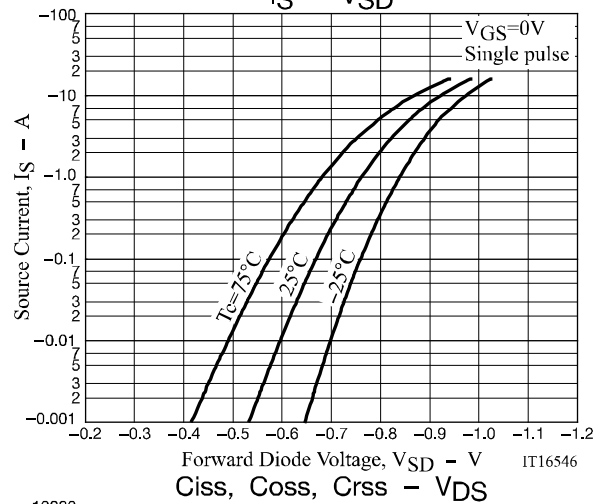
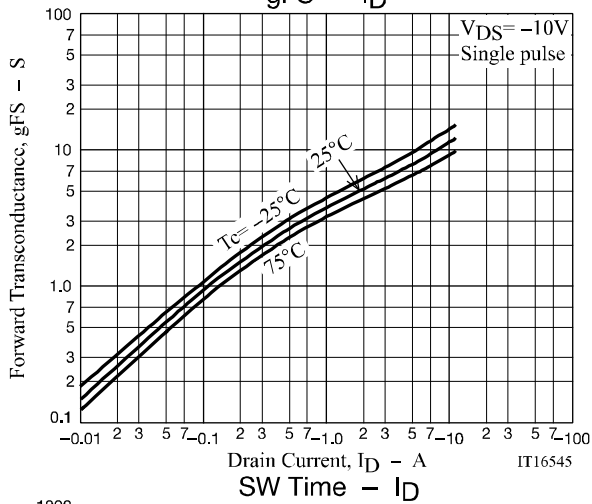
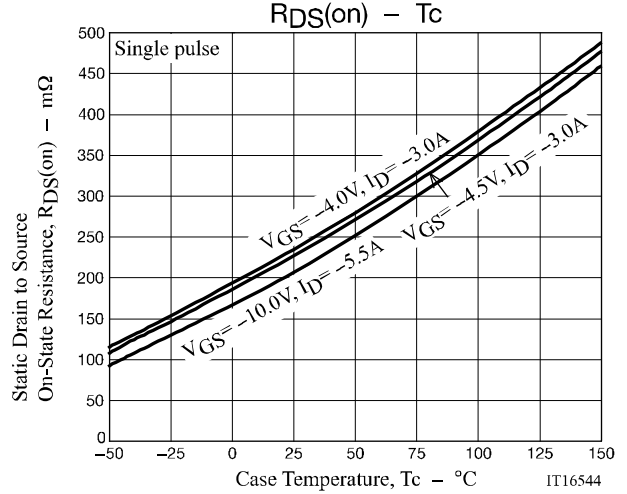
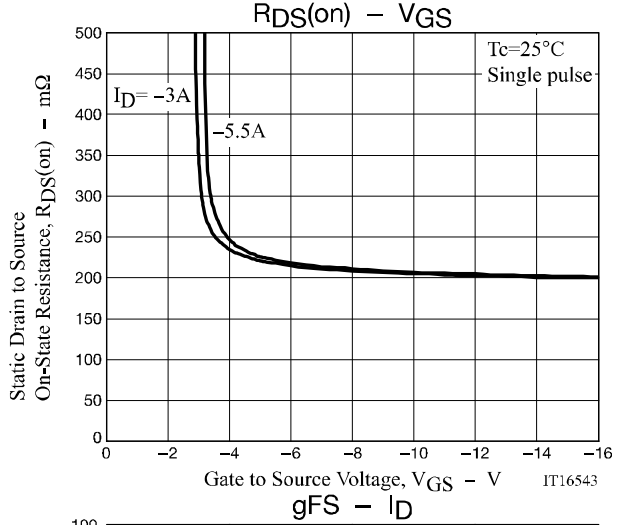
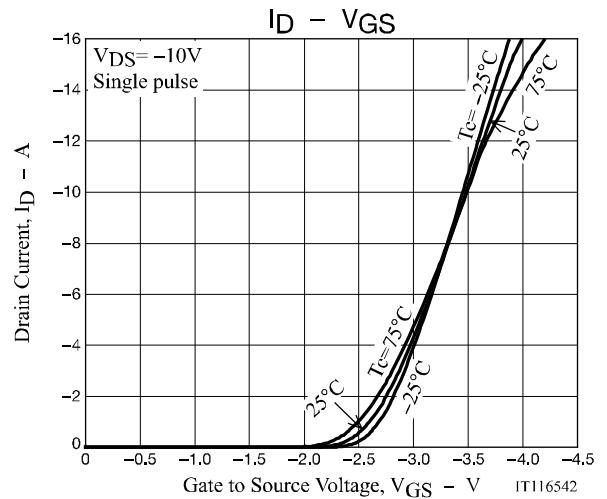
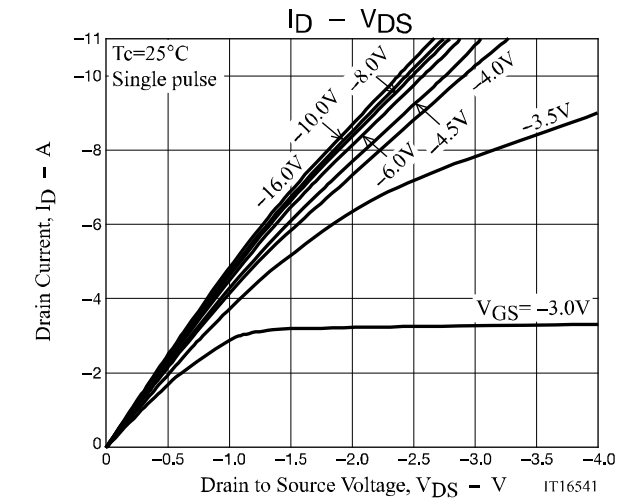
Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Drain to Source Breakdown Voltage	V(BR)DSS	ID=−1mA, VGS=0V	−100			V
Zero-Gate Voltage Drain Current	IDSS	VDS=−100V, VGS=0V			−1	μA
Gate to Source Leakage Current	IGSS	VGS=±16V, VDS=0V			±10	μA
Gate Threshold Voltage	VGS(th)	VDS=−10V, ID=−1mA	−1.2		−2.6	V
Forward Transconductance	gFS	VDS=−10V, ID=−5.5A		8.5		S
Static Drain to Source On-State Resistance	RDS(on)1	ID=−5.5A, VGS=−10V		210	275	mΩ
	RDS(on)2	ID=−3A, VGS=−4.5V		225	315	mΩ
	RDS(on)3	ID=−3A, VGS=−4V		235	330	mΩ
Input Capacitance	Ciss	VDS=−20V, f=1MHz		1020		pF
Output Capacitance	Coss			72		pF
Reverse Transfer Capacitance	Crss			43		pF
Turn-ON Delay Time	td(on)	See specified Test Circuit		9.5		ns
Rise Time	tr			25		ns
Turn-OFF Delay Time	td(off)			105		ns
Fall Time	tf			55		ns
Total Gate Charge	Qg	VDS=−50V, VGS=−10V, ID=−11A		21		nC
Gate to Source Charge	Qgs			3.6		nC
Gate to Drain "Miller" Charge	Qgd			4.5		nC
Forward Diode Voltage	VSD	IS=−11A, VGS=0V		−0.93	−1.5	V

Note 3 : 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.

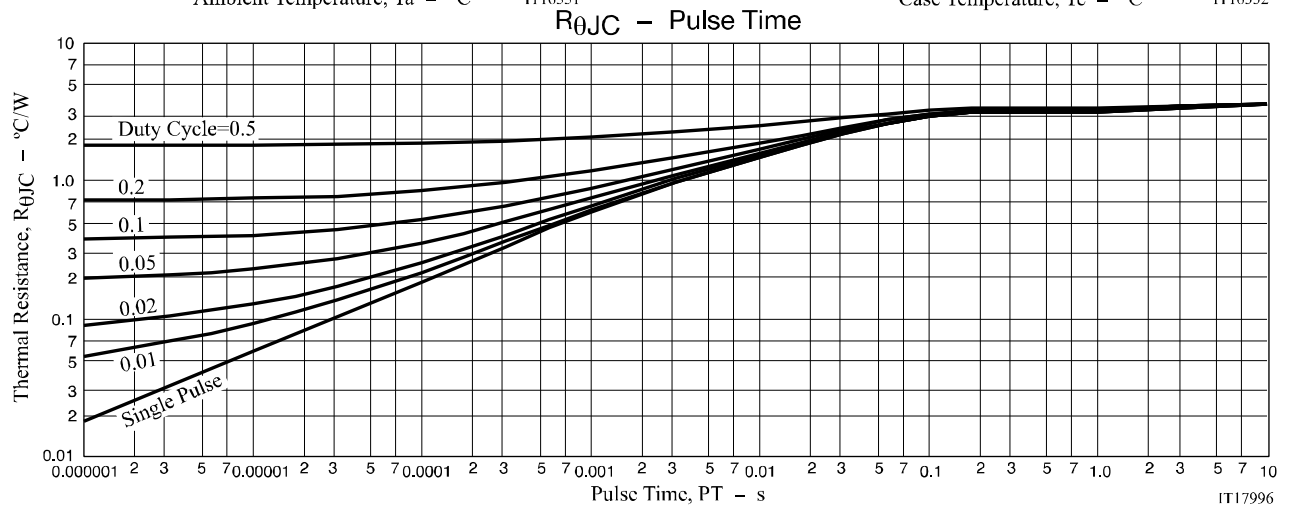
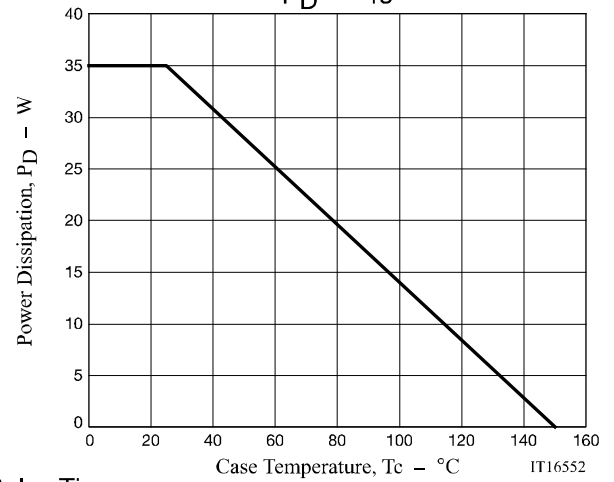
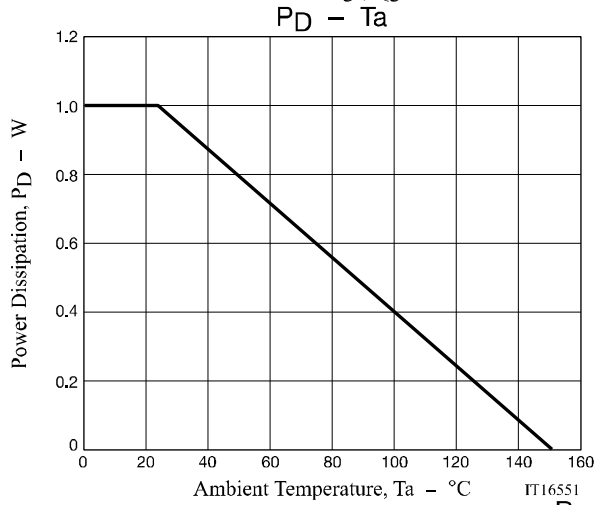
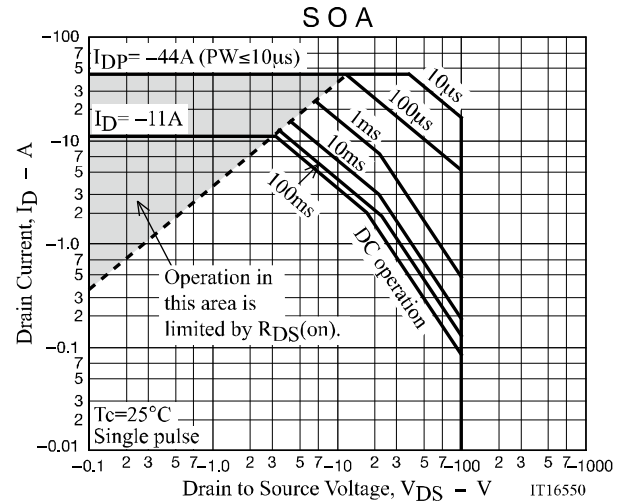
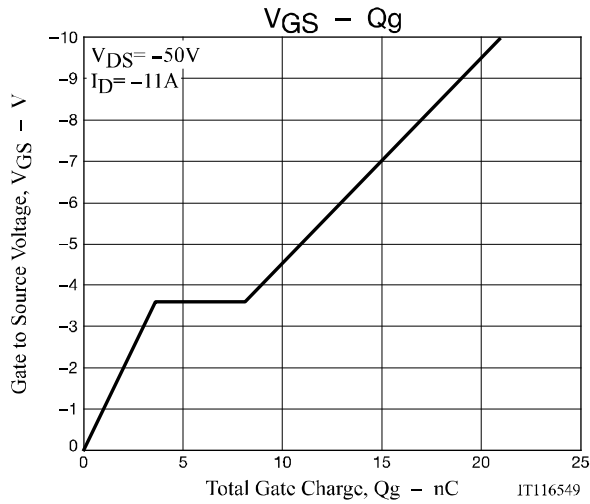
## Switching Time Test Circuit



# SFT1345



# SFT1345



**SFT1345**

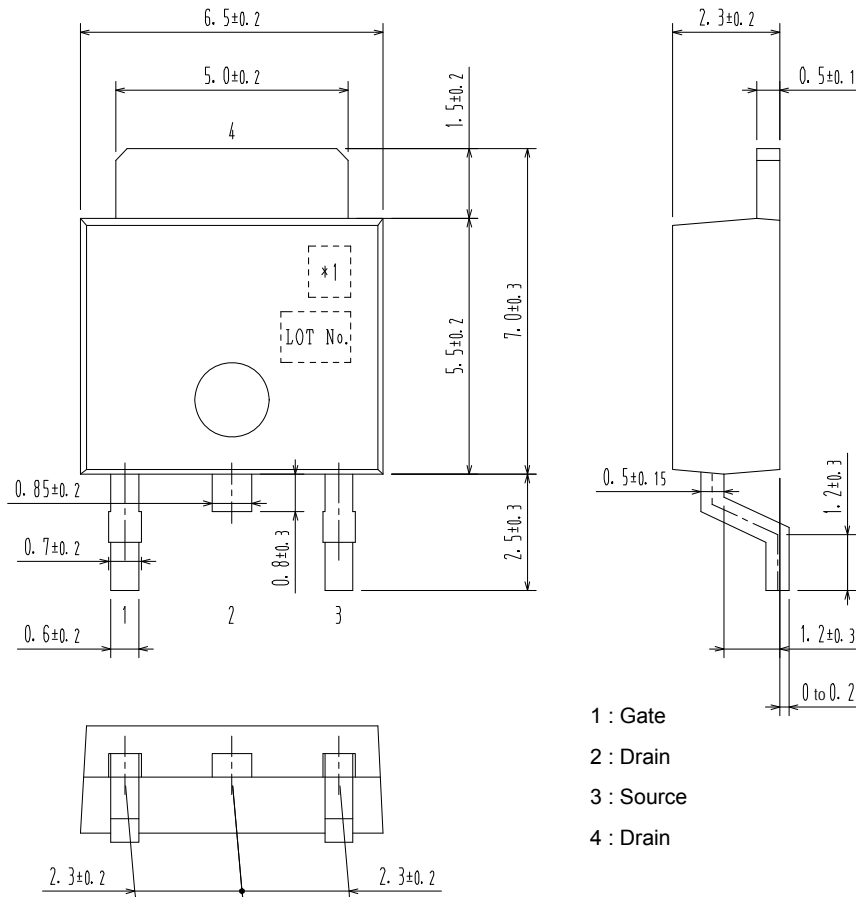
## PACKAGE DIMENSIONS

unit : mm

DPAK / TP-FA  
CASE 00011

CASE 369AH

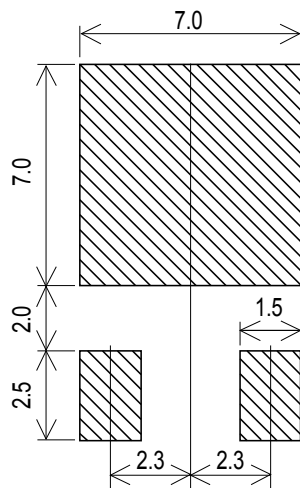
ISSUE O



Pin 2 is idle pin with electrical designation only carried.

\*1: Lot indication

### Recommended Soldering Footprint

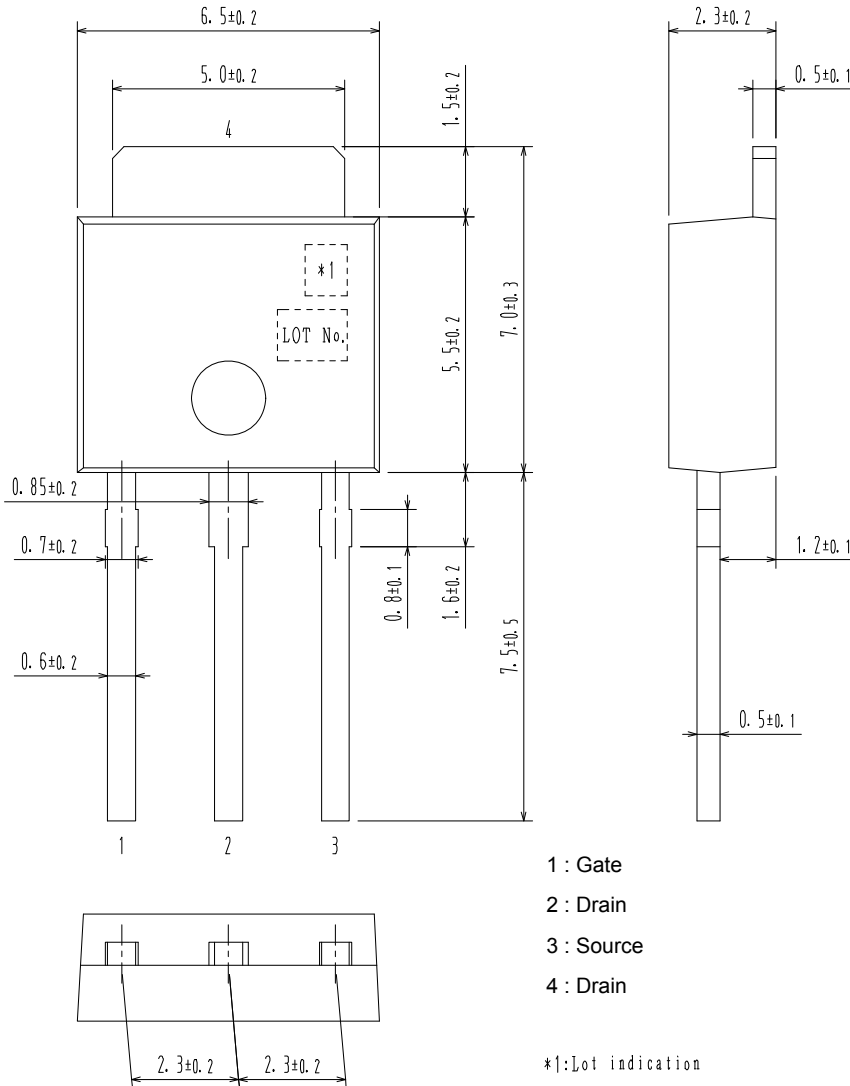


# SFT1345

## PACKAGE DIMENSIONS

unit : mm

IPAK / TP  
CASE 369AJ  
ISSUE O



## ORDERING INFORMATION

Device	Marking	Package	Shipping (Qty / Packing)
SFT1345-H	T1345	IPAK / TP (Pb-Free / Halogen Free)	500 / Bag
SFT1345-TL-H	T1345	DPAK / TP-FA (Pb-Free / Halogen Free)	700 / Tape & Reel

† For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D. [http://www.onsemi.com/pub\\_link/Collateral/BRD8011-D.PDF](http://www.onsemi.com/pub_link/Collateral/BRD8011-D.PDF)

Note on usage : Since the SFT1345 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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