

2SK3747

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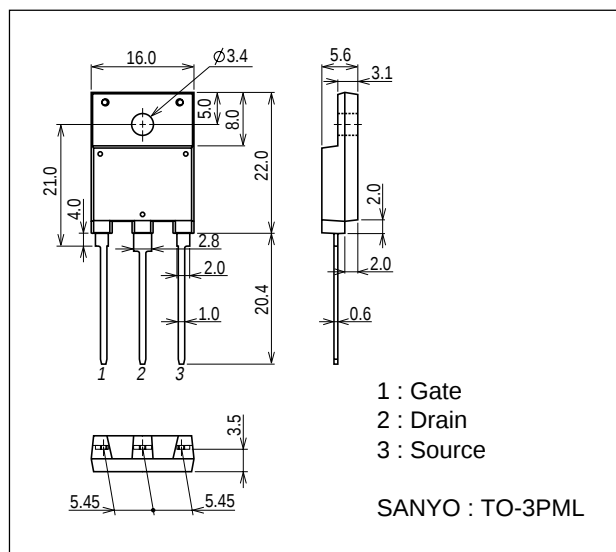
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input Capacitance	Ciss	$V_{DS}=30V, f=1MHz$		380		pF
Output Capacitance	Coss	$V_{DS}=30V, f=1MHz$		70		pF
Reverse Transfer Capacitance	Crss	$V_{DS}=30V, f=1MHz$		40		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit.		12		ns
Rise Time	t_r	See specified Test Circuit.		37		ns
Turn-OFF Delay Time	$t_{d(off)}$	See specified Test Circuit.		152		ns
Fall Time	t_f	See specified Test Circuit.		59		ns
Total Gate Charge	Qg	$V_{DS}=200V, V_{GS}=10V, I_D=2A$		37.5		nC
Gate-to-Source Charge	Qgs	$V_{DS}=200V, V_{GS}=10V, I_D=2A$		2.7		nC
Gate-to-Drain "Miller" Charge	Qgd	$V_{DS}=200V, V_{GS}=10V, I_D=2A$		20		nC
Diode Forward Voltage	V_{SD}	$I_S=2A, V_{GS}=0V$		0.88	1.2	V

Note) Although the protection diode is contained between gate and source, be careful of handling enough.

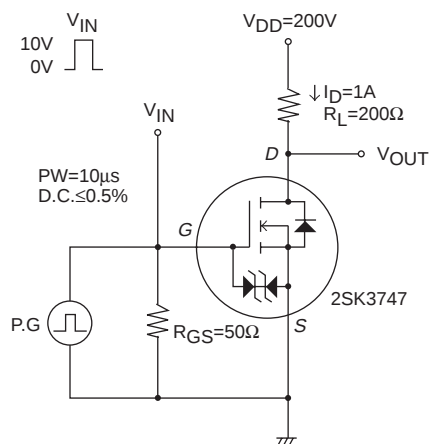
Package Dimensions

unit : mm

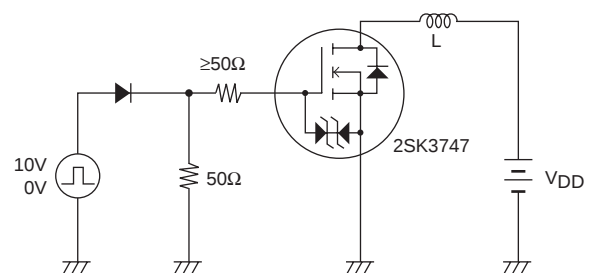
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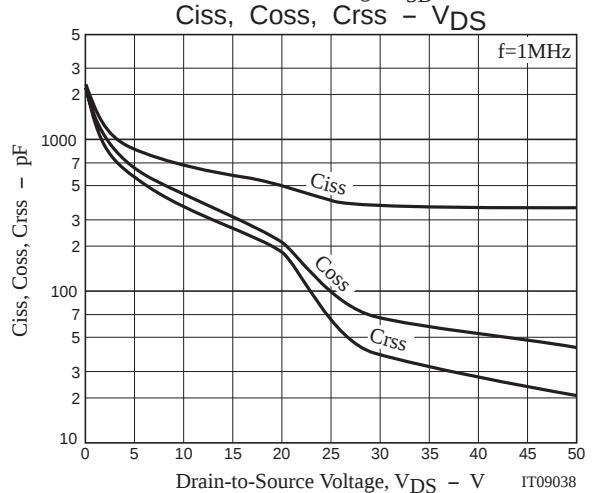
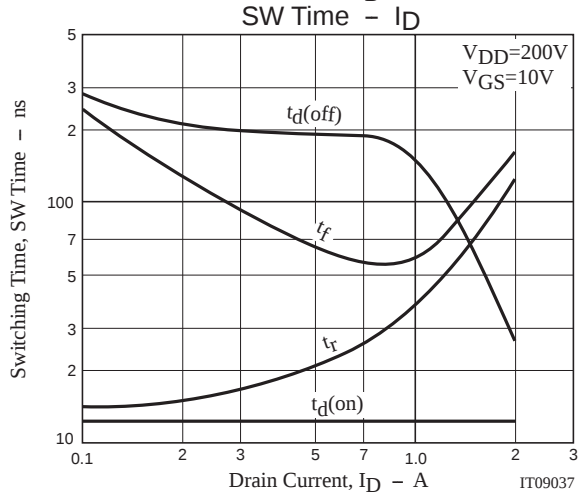
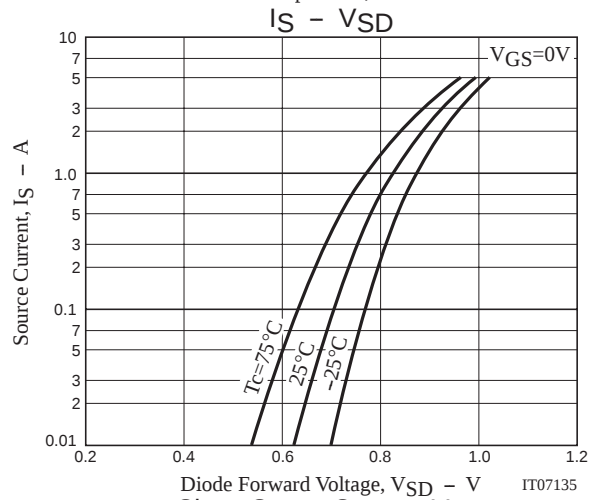
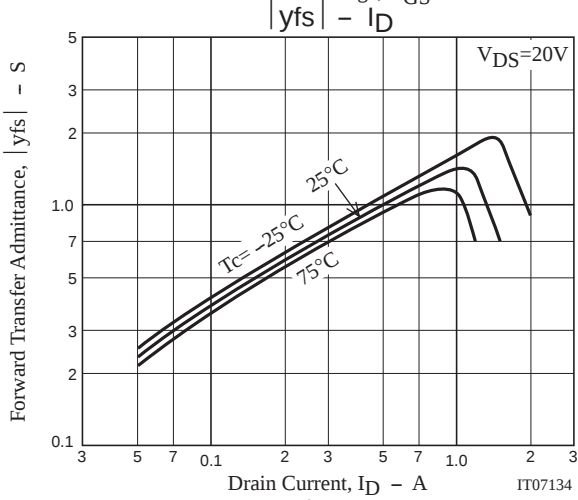
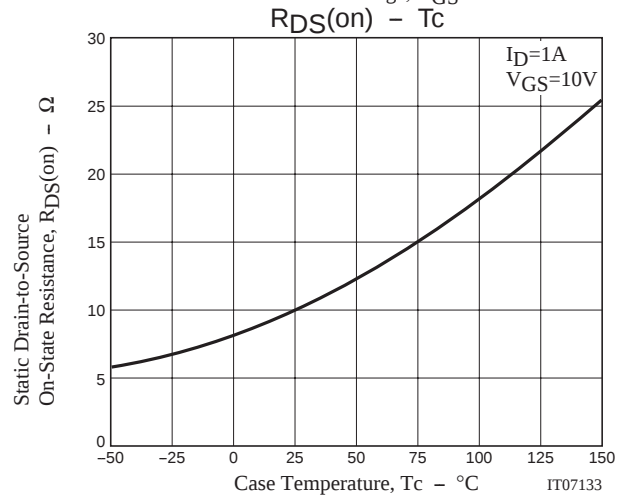
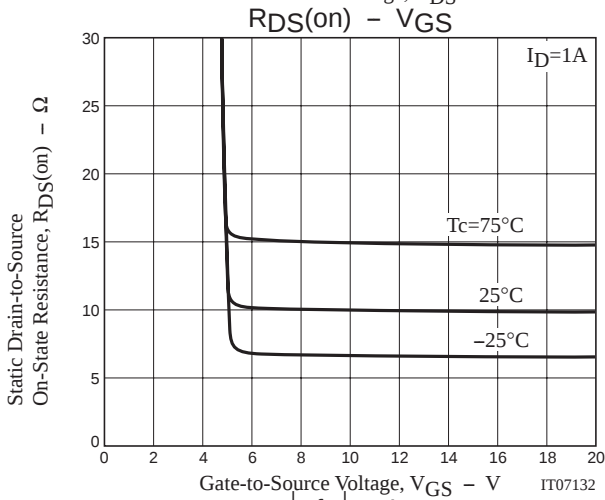
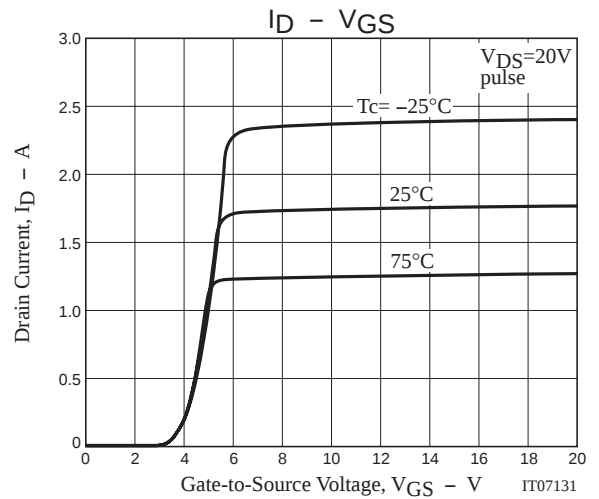
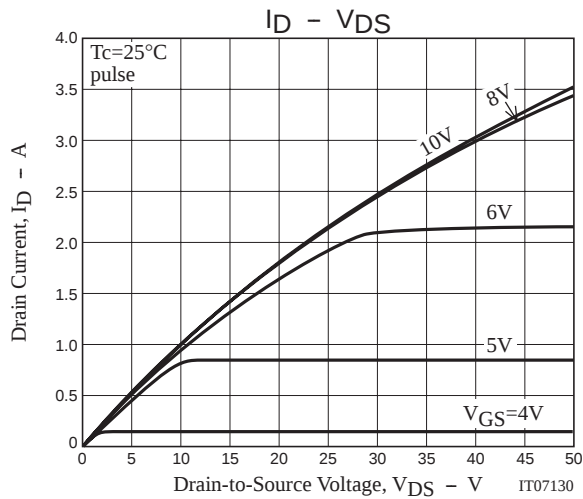


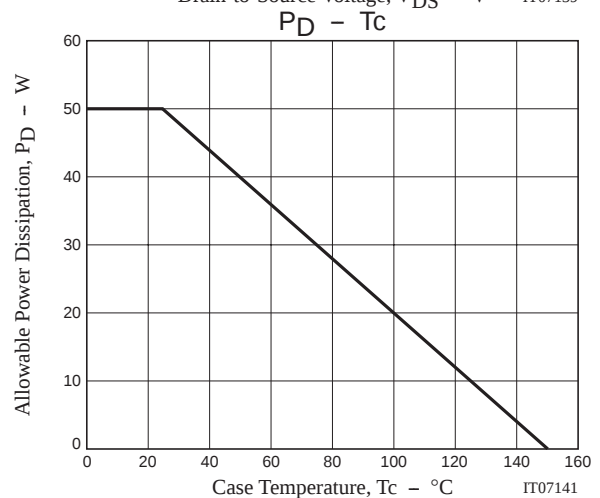
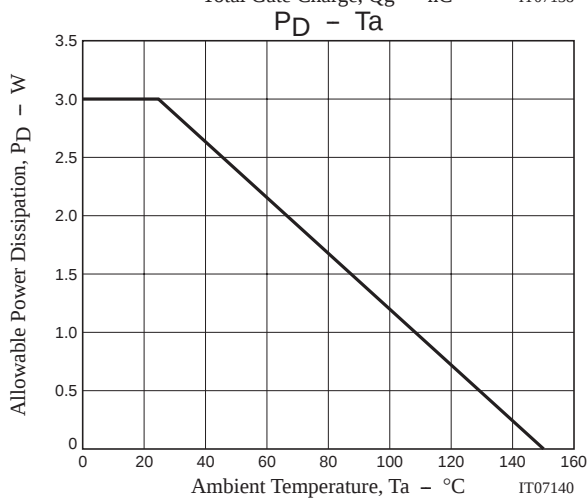
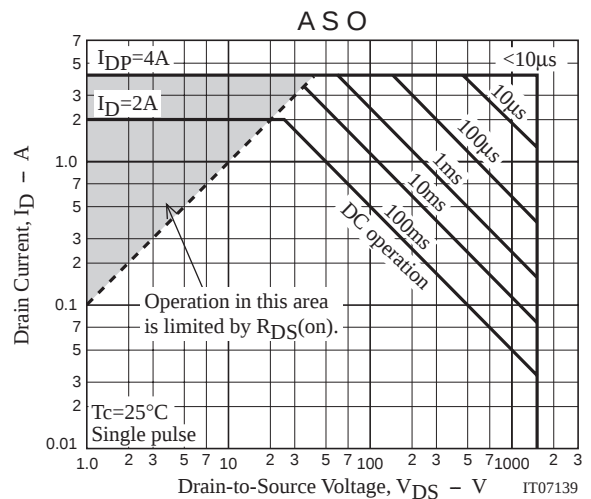
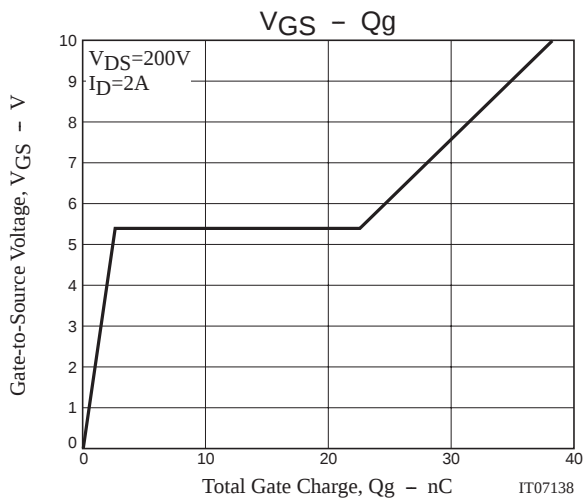
Switching Time Test Circuit



Avalanche Resistance Test Circuit







Note on usage : Since the 2SK3747 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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