

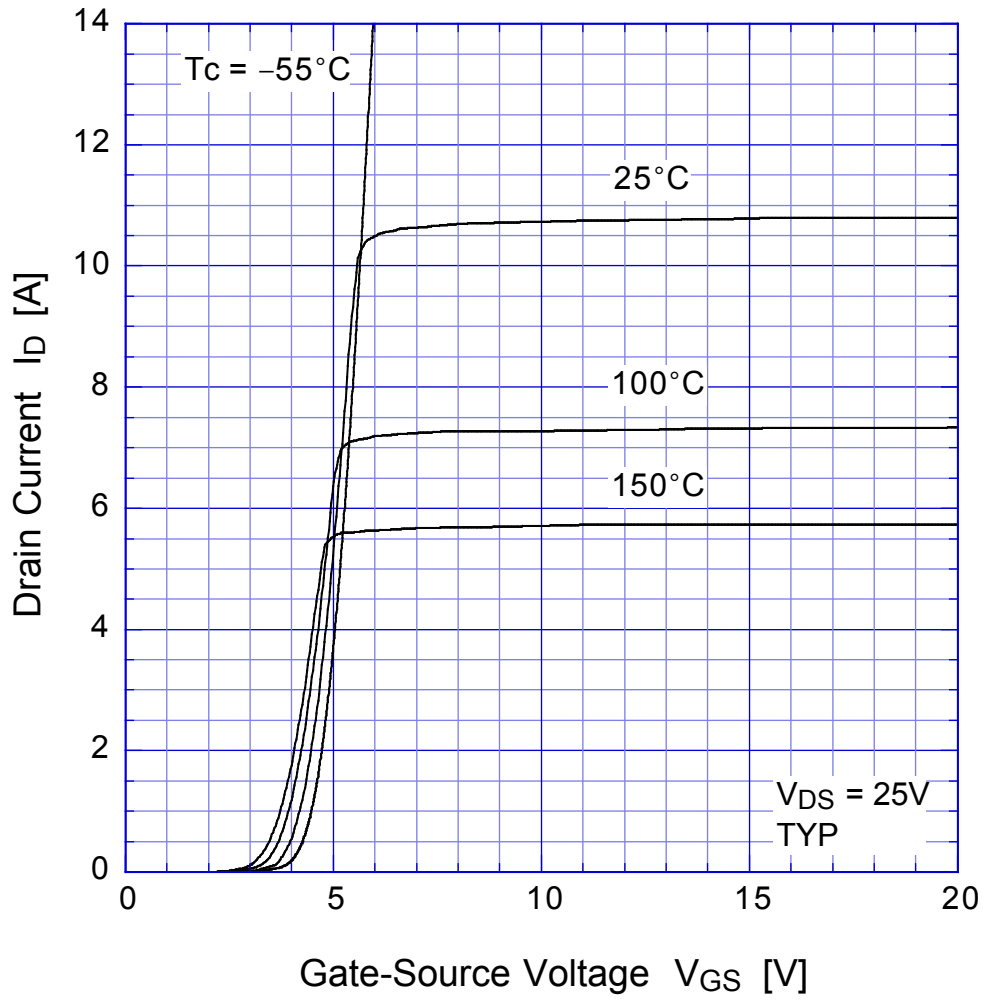


● Electrical Characteristics  $T_c = 25^\circ\text{C}$ 

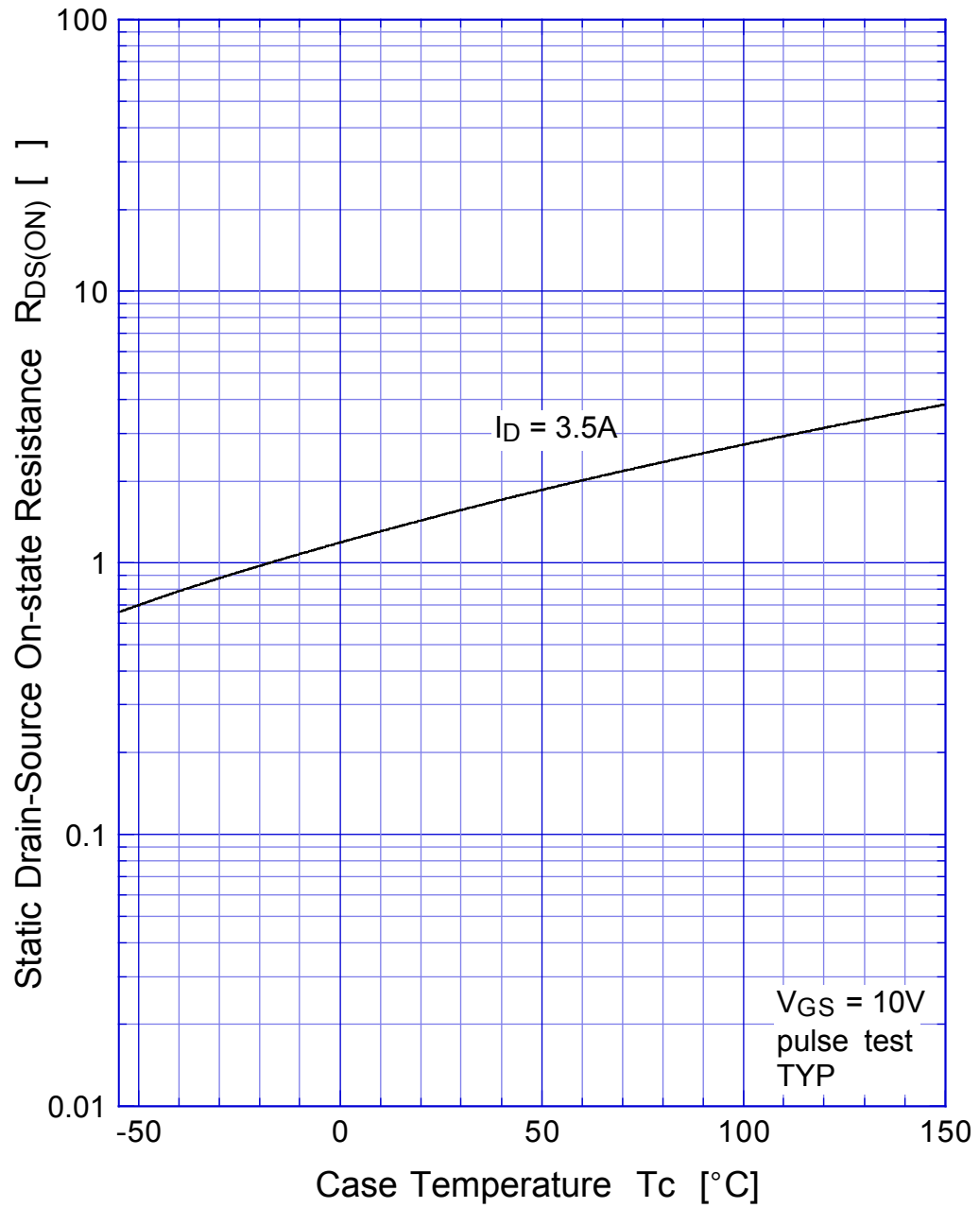
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D = 1\text{mA}, V_{GS} = 0\text{V}$	900			V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS} = 900\text{V}, V_{GS} = 0\text{V}$			250	$\mu\text{A}$
Gate-Source Leakage Current	$I_{GSS}$	$V_{GS} = \pm 30\text{V}, V_{DS} = 0\text{V}$			$\pm 0.1$	
Forward Transconductance	$g_{fs}$	$I_D = 3.5\text{A}, V_{DS} = 10\text{V}$	3.6	6.0		S
Static Drain-Source On-state Resistance	$R_{DS(ON)}$	$I_D = 3.5\text{A}, V_{GS} = 10\text{V}$		1.5	2.0	$\Omega$
Gate Threshold Voltage	$V_{TH}$	$I_D = 1\text{mA}, V_{DS} = 10\text{V}$	2.5	3.0	3.5	V
Source-Drain Diode Forward Voltage	$V_{SD}$	$I_S = 3.5\text{A}, V_{GS} = 0\text{V}$			1.5	
Thermal Resistance	$\theta_{jc}$	junction to case			1.25	$^\circ\text{C}/\text{W}$
Total Gate Charge	$Q_g$	$V_{DD} = 400\text{V}, V_{GS} = 10\text{V}, I_D = 7\text{A}$		63		nC
Input Capacitance	$C_{iss}$			1450		
Reverse Transfer Capacitance	$C_{rss}$	$V_{DS} = 25\text{V}, V_{GS} = 0\text{V}, f = 1\text{MHz}$		37		pF
Output Capacitance	$C_{oss}$			150		
Turn-On Time	$t_{on}$	$I_D = 3.5\text{A}, R_L = 43\Omega, V_{GS} = 10\text{V}$		95	170	ns
Turn-Off Time	$t_{off}$			330	560	

# 2SK2674

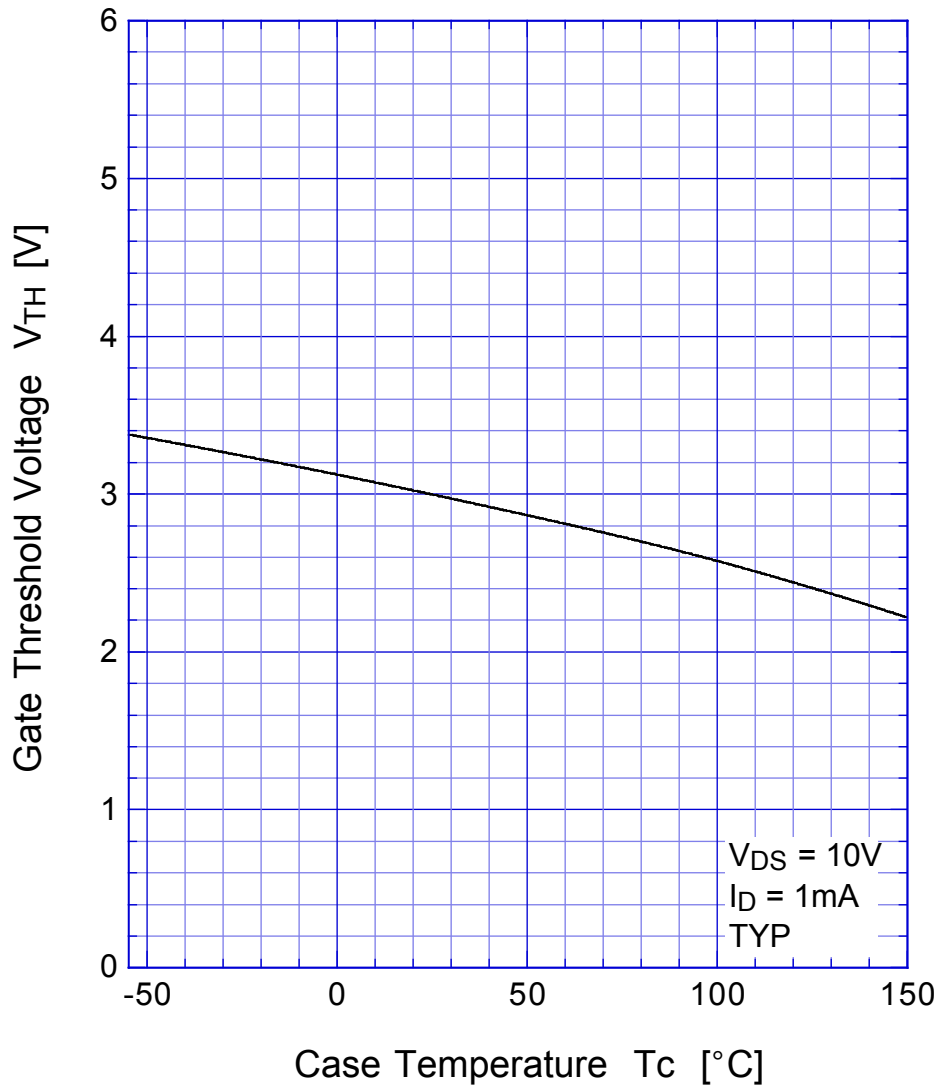
## Transfer Characteristics



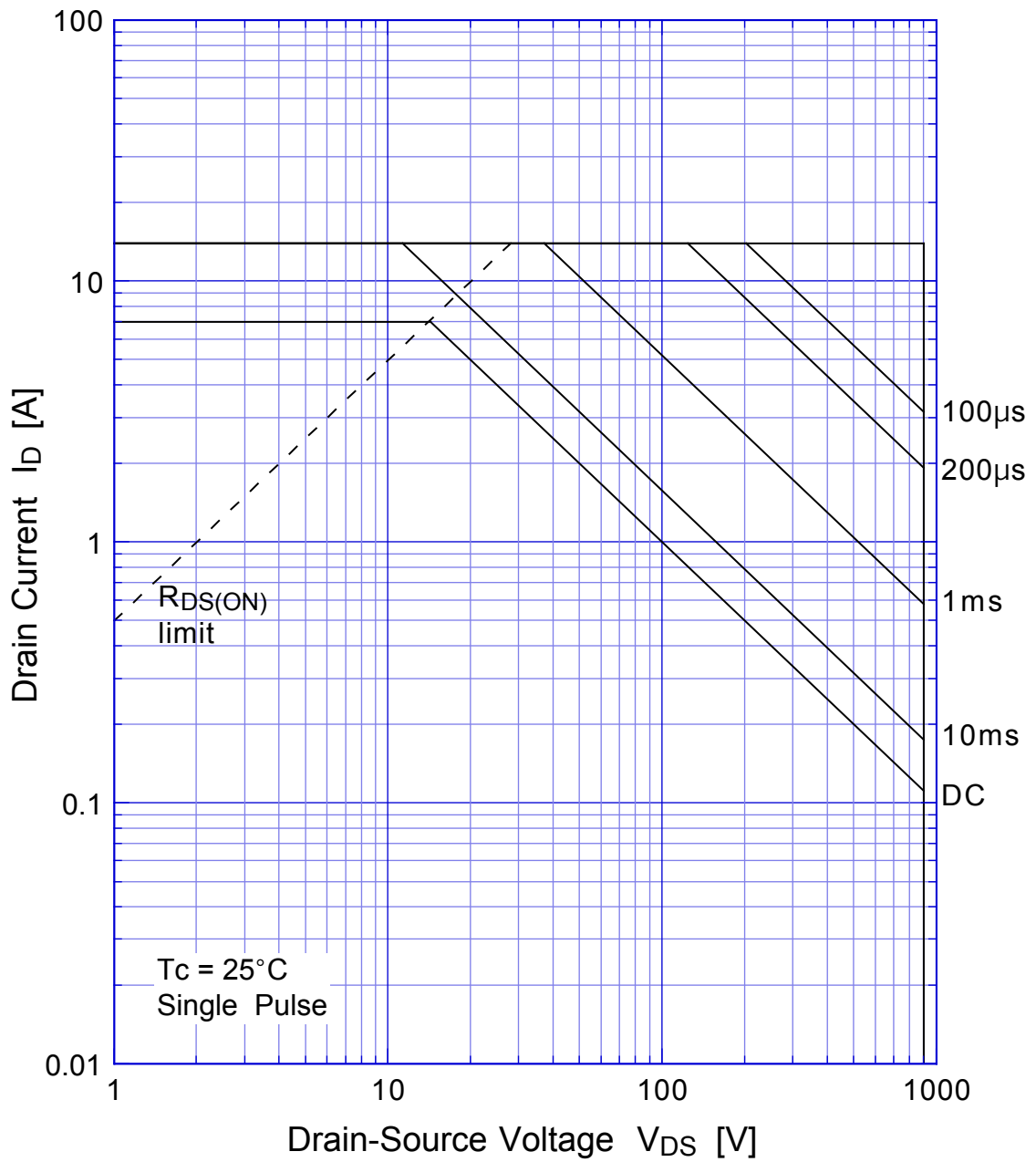
## 2SK2674 Static Drain-Source On-state Resistance



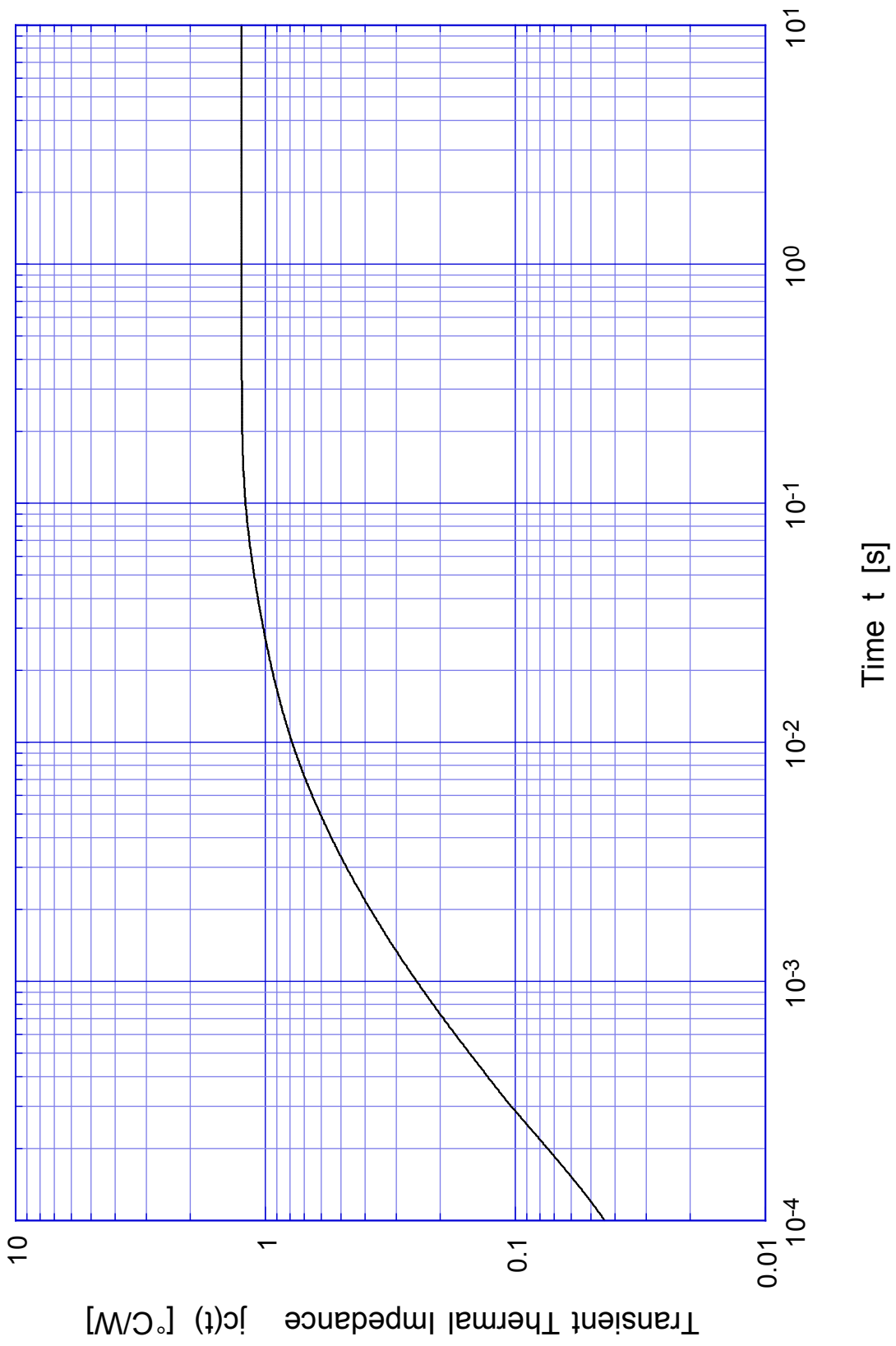
2SK2674 Gate Threshold Voltage



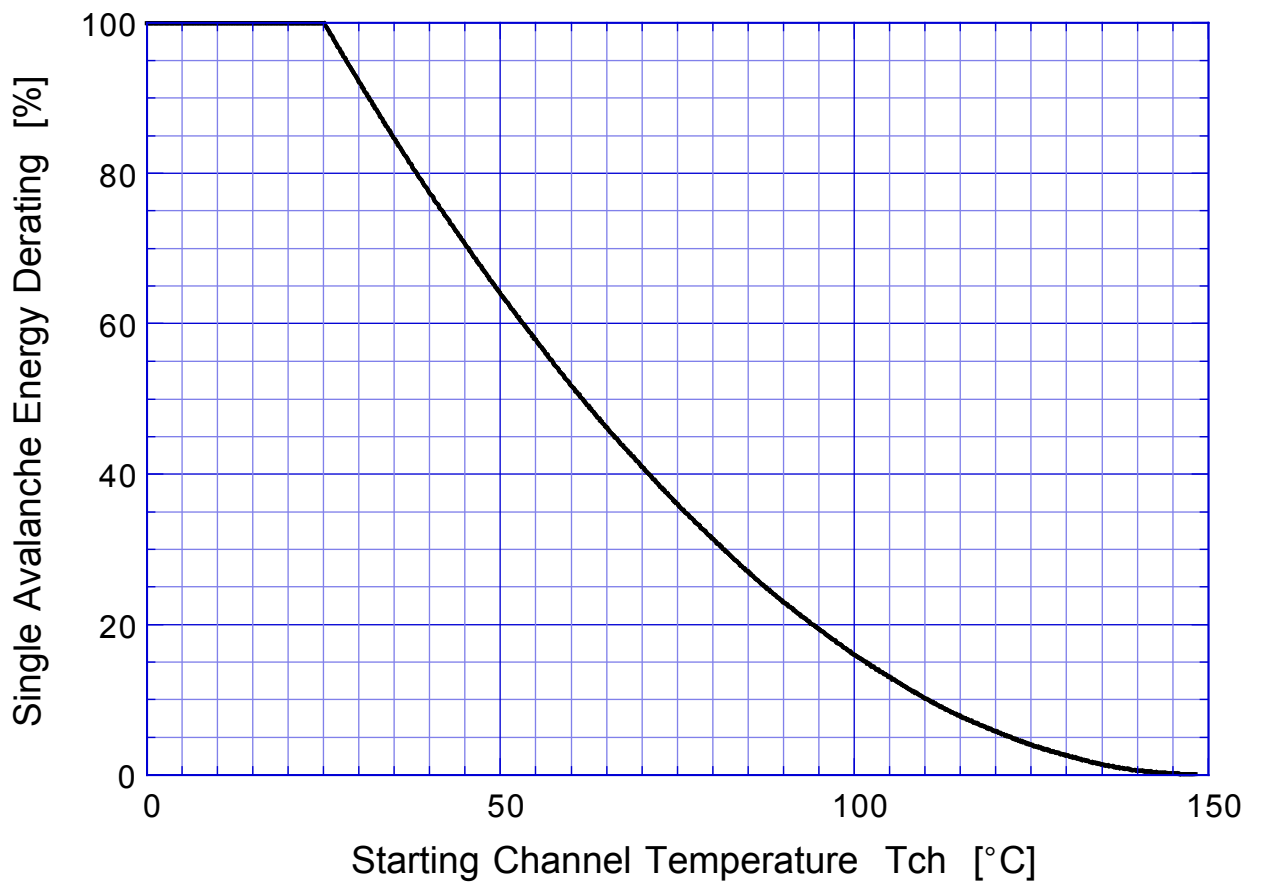
# 2SK2674 Safe Operating Area



# 2SK2674 Transient Thermal Impedance



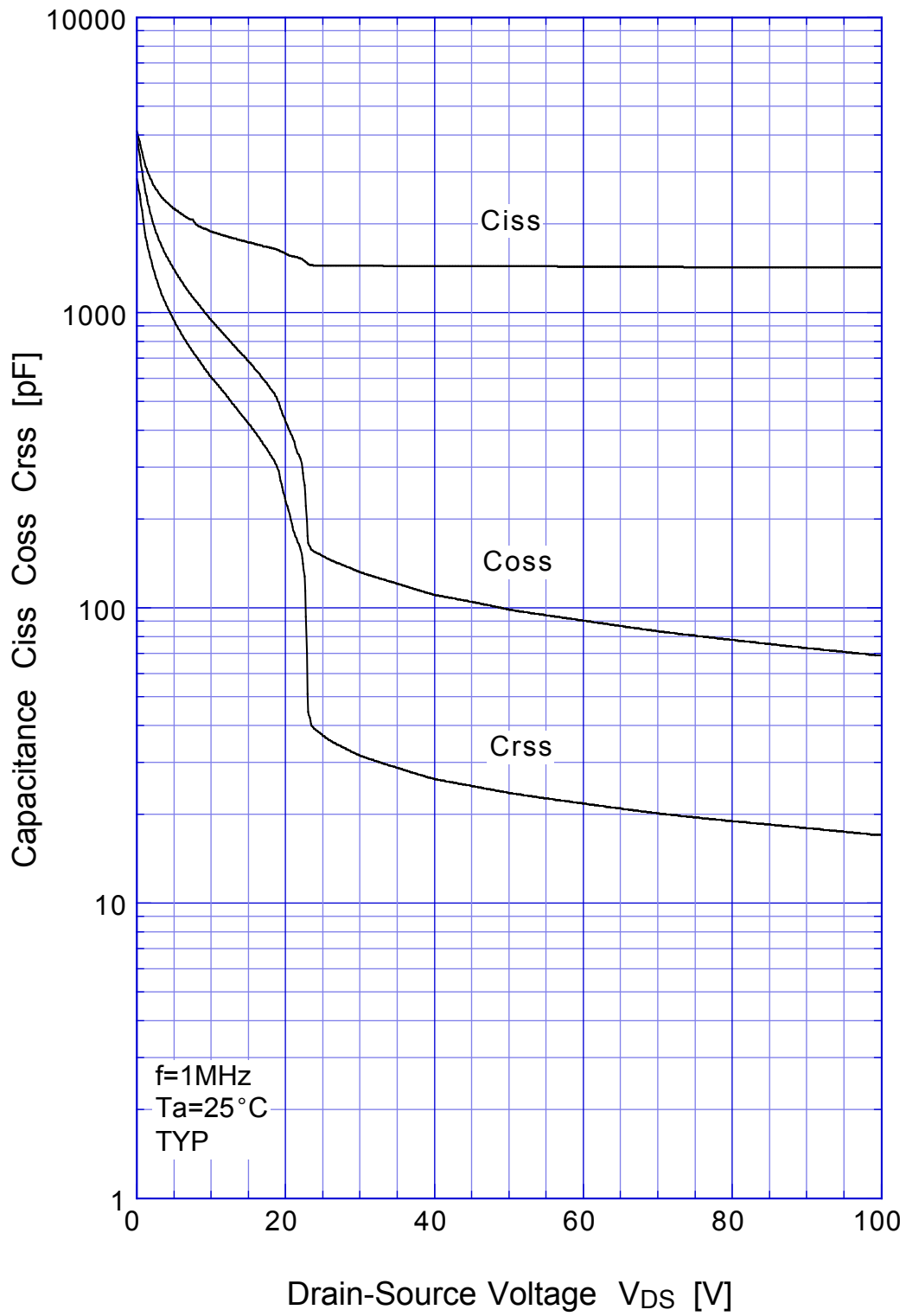
## 2SK2674 Single Avalanche Energy Derating



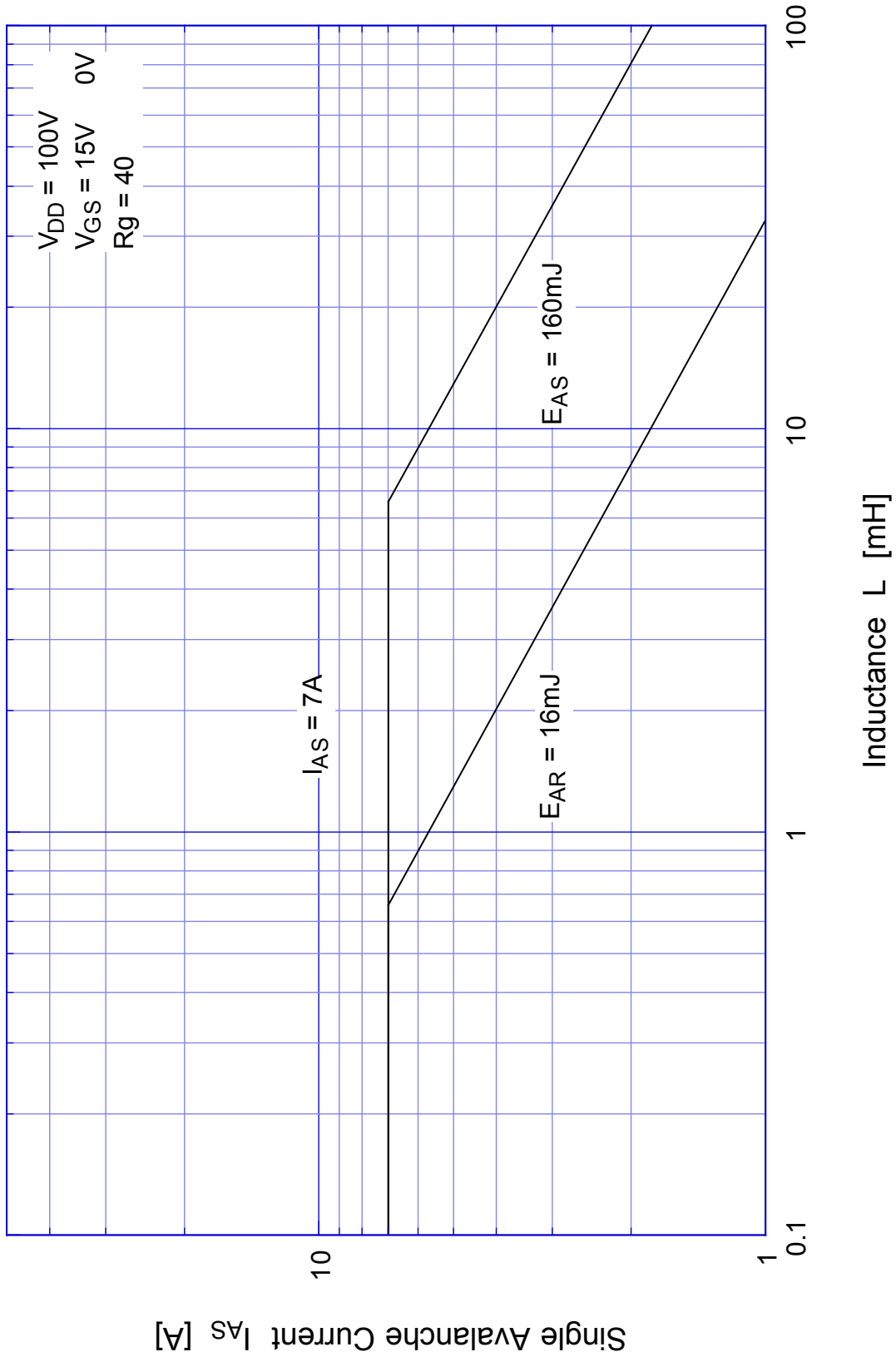


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# Capacitance

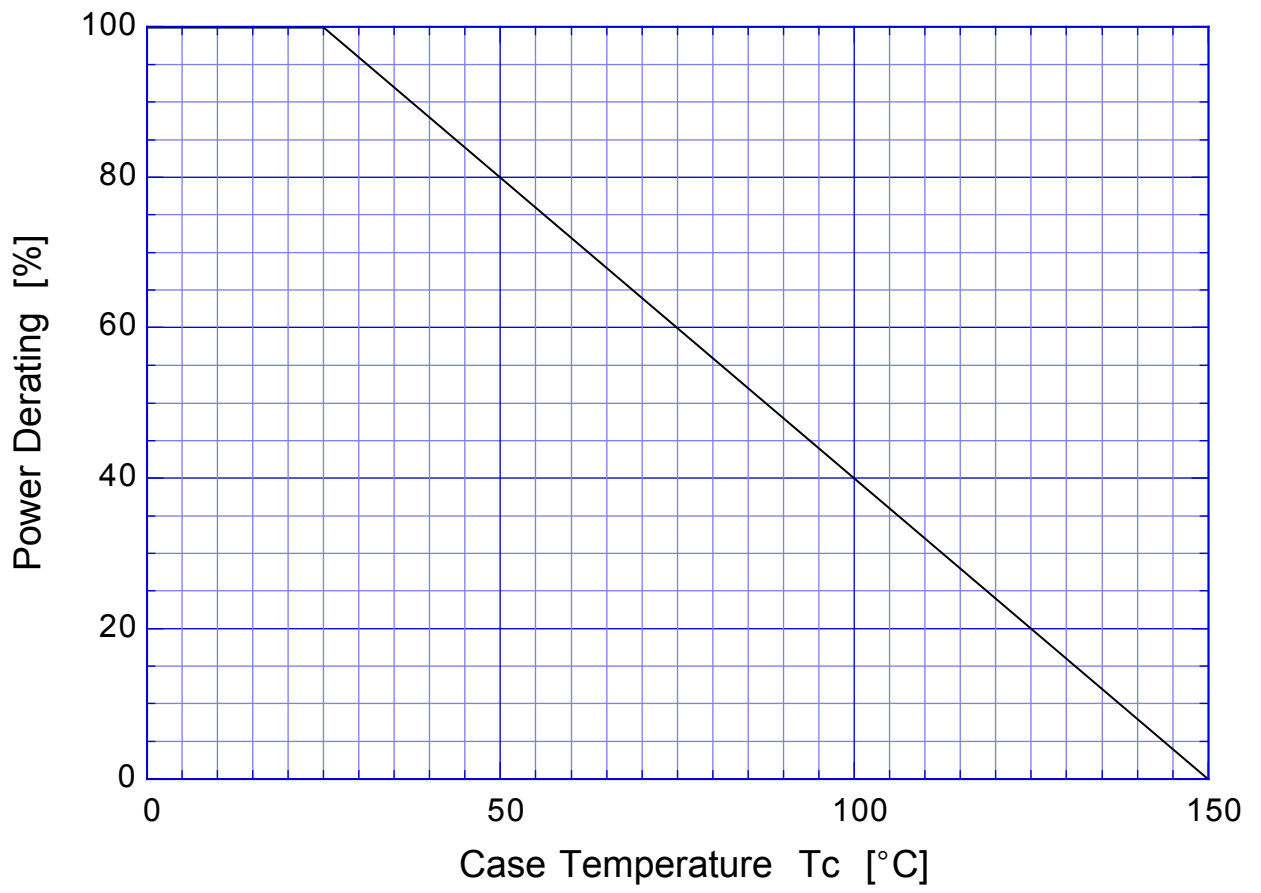


# 2SK2674 Single Avalanche Current - Inductive Load



2SK2674

Power Derating



## 2SK2674 Gate Charge Characteristics

