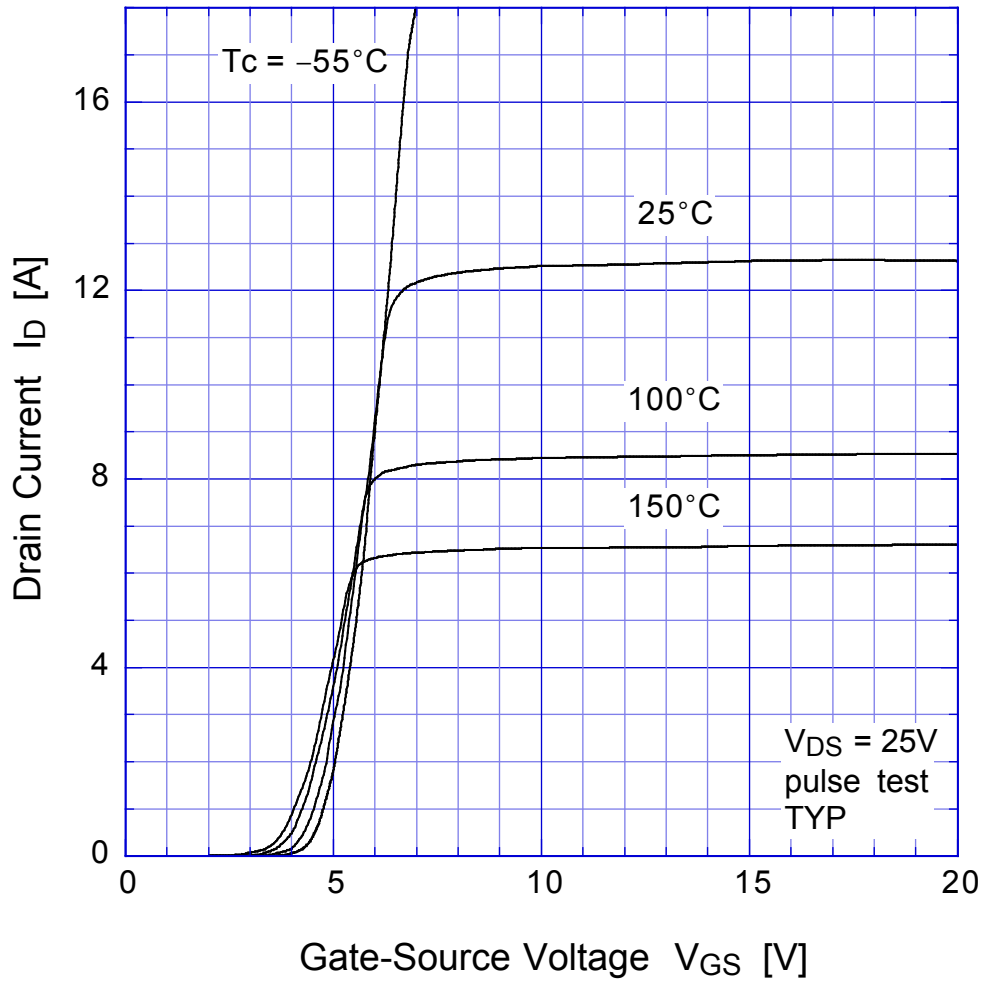


● Electrical Characteristics $T_c = 25^\circ\text{C}$

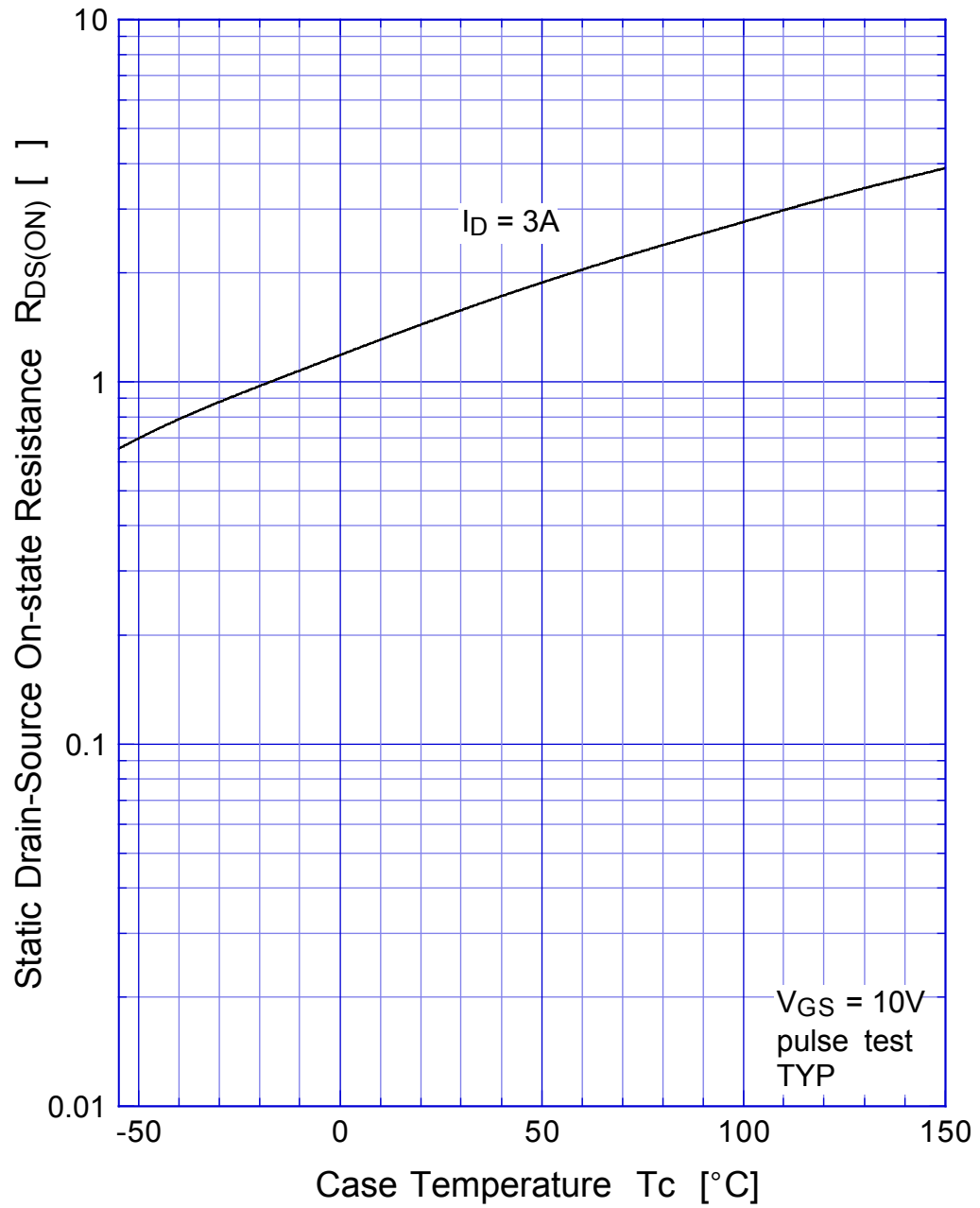
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D = 1\text{mA}, V_{GS} = 0\text{V}$	700			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = 700\text{V}, V_{GS} = 0\text{V}$			250	μA
Gate-Source Leakage Current	I_{GSS}	$V_{GS} = \pm 30\text{V}, V_{DS} = 0\text{V}$			± 0.1	
Forward Transconductance	g_{fs}	$I_D = 3\text{A}, V_{DS} = 10\text{V}$	3.0	5.0		S
Static Drain-Source On-state Resistance	$R_{DS(ON)}$	$I_D = 3\text{A}, V_{GS} = 10\text{V}$		1.5	2.0	Ω
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}	$I_S = 3\text{A}, V_{GS} = 0\text{V}$			1.5	
Thermal Resistance	θ_{jc}	junction to case			2.5	$^\circ\text{C}/\text{W}$
Total Gate Charge	Q_g	$V_{DD} = 400\text{V}, V_{GS} = 10\text{V}, I_D = 6\text{A}$		35		nC
Input Capacitance	C_{iss}			1250		
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = 10\text{V}, V_{GS} = 0\text{V}, f = 1\text{MHz}$		250		pF
Output Capacitance	C_{oss}			530		
Turn-On Time	t_{on}	$I_D = 3\text{A}, R_L = 50\Omega, V_{GS} = 10\text{V}$		60	110	ns
Turn-Off Time	t_{off}			160	250	

2SK2333

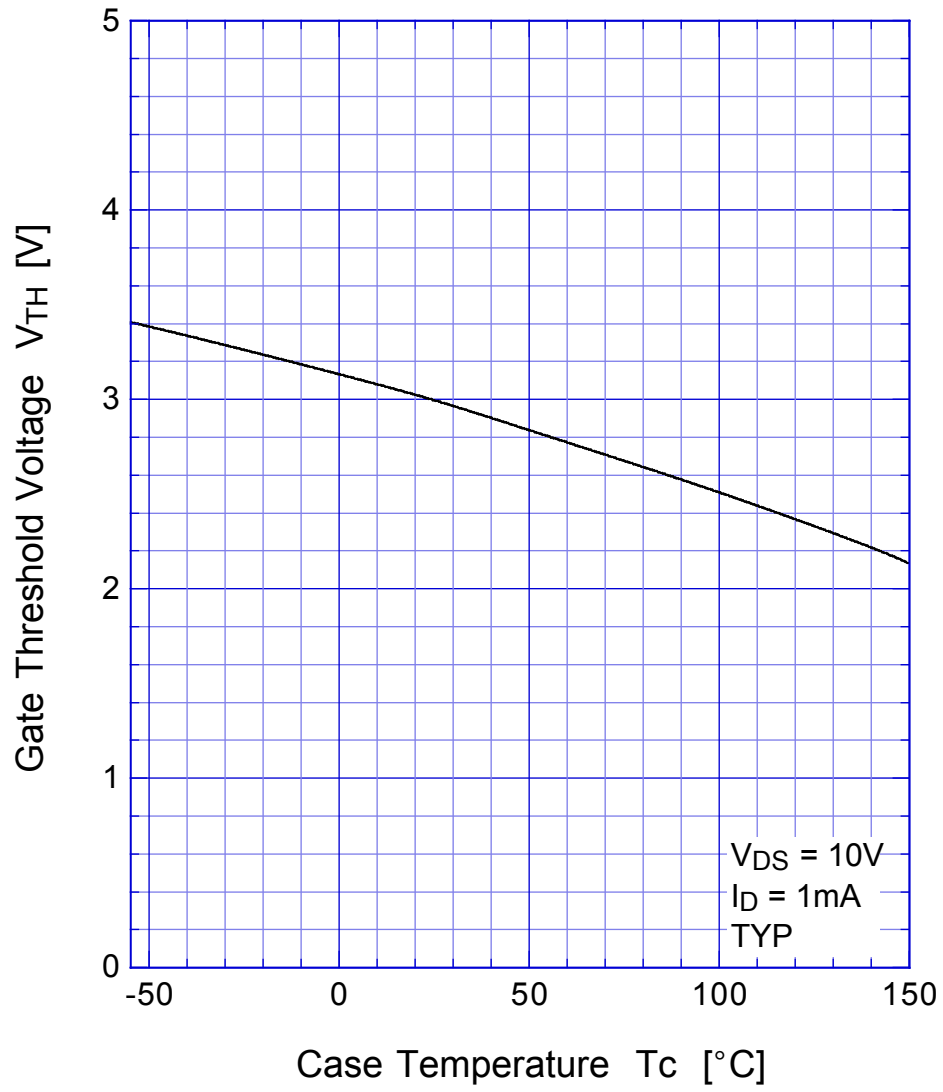
Transfer Characteristics



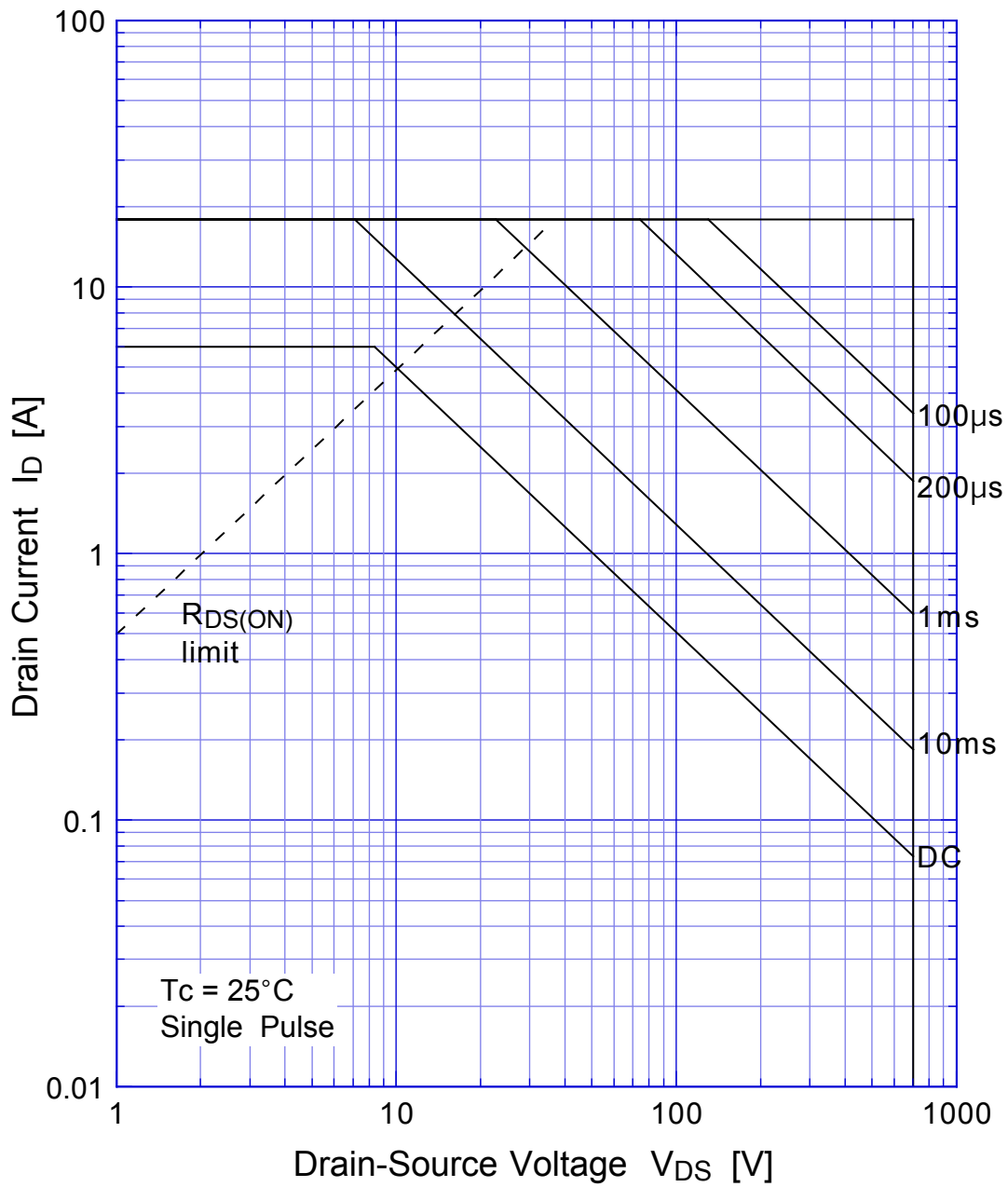
2SK2333 Static Drain-Source On-state Resistance



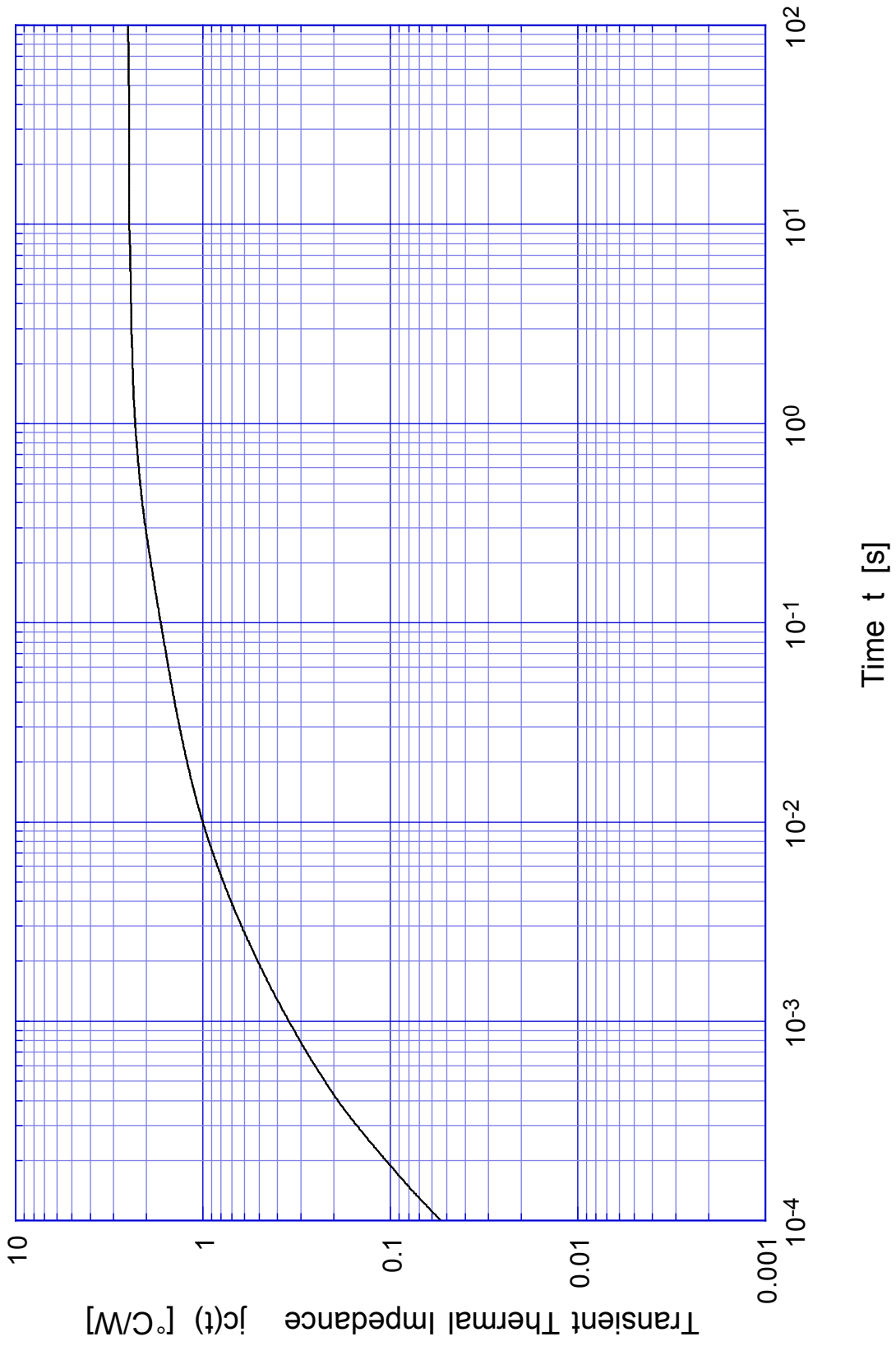
2SK2333 Gate Threshold Voltage



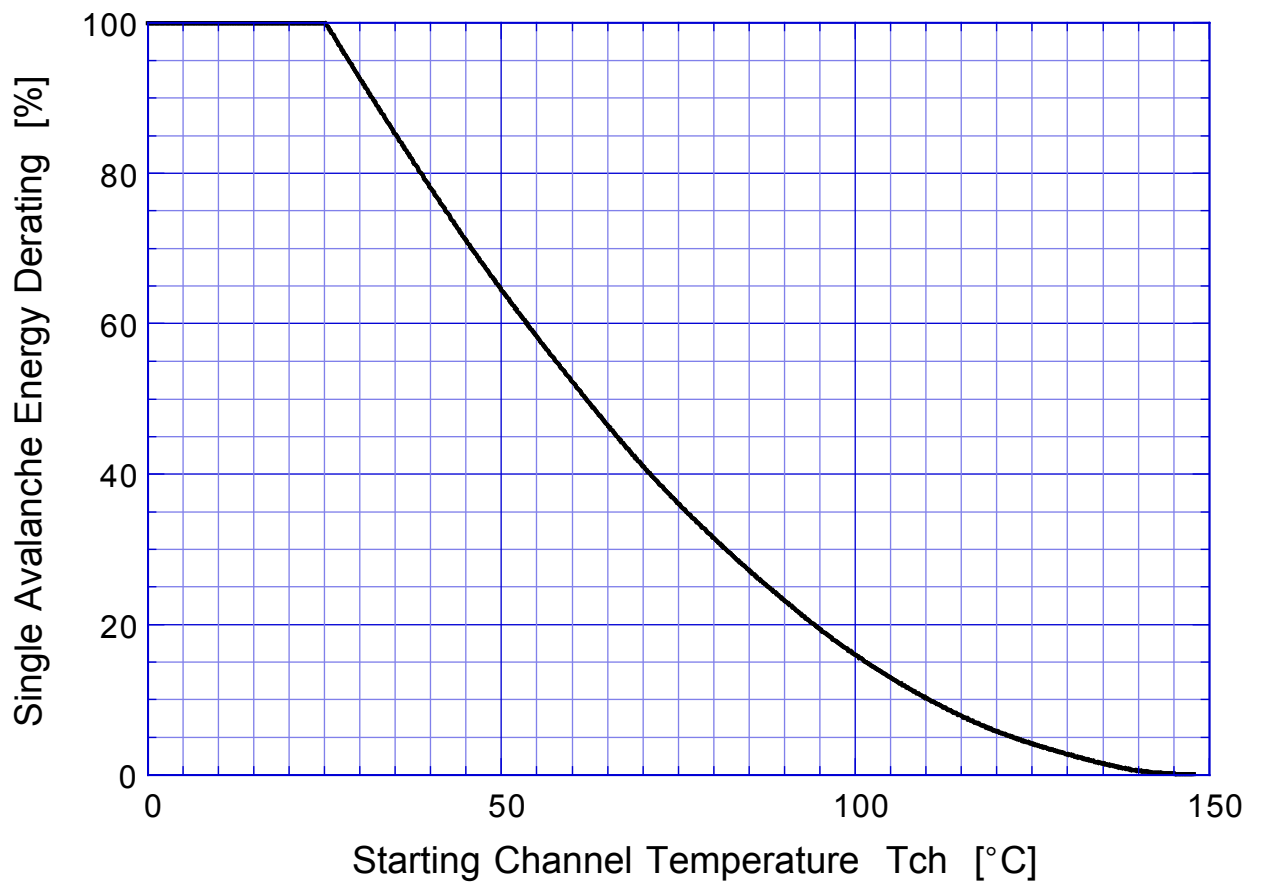
2SK2333 Safe Operating Area



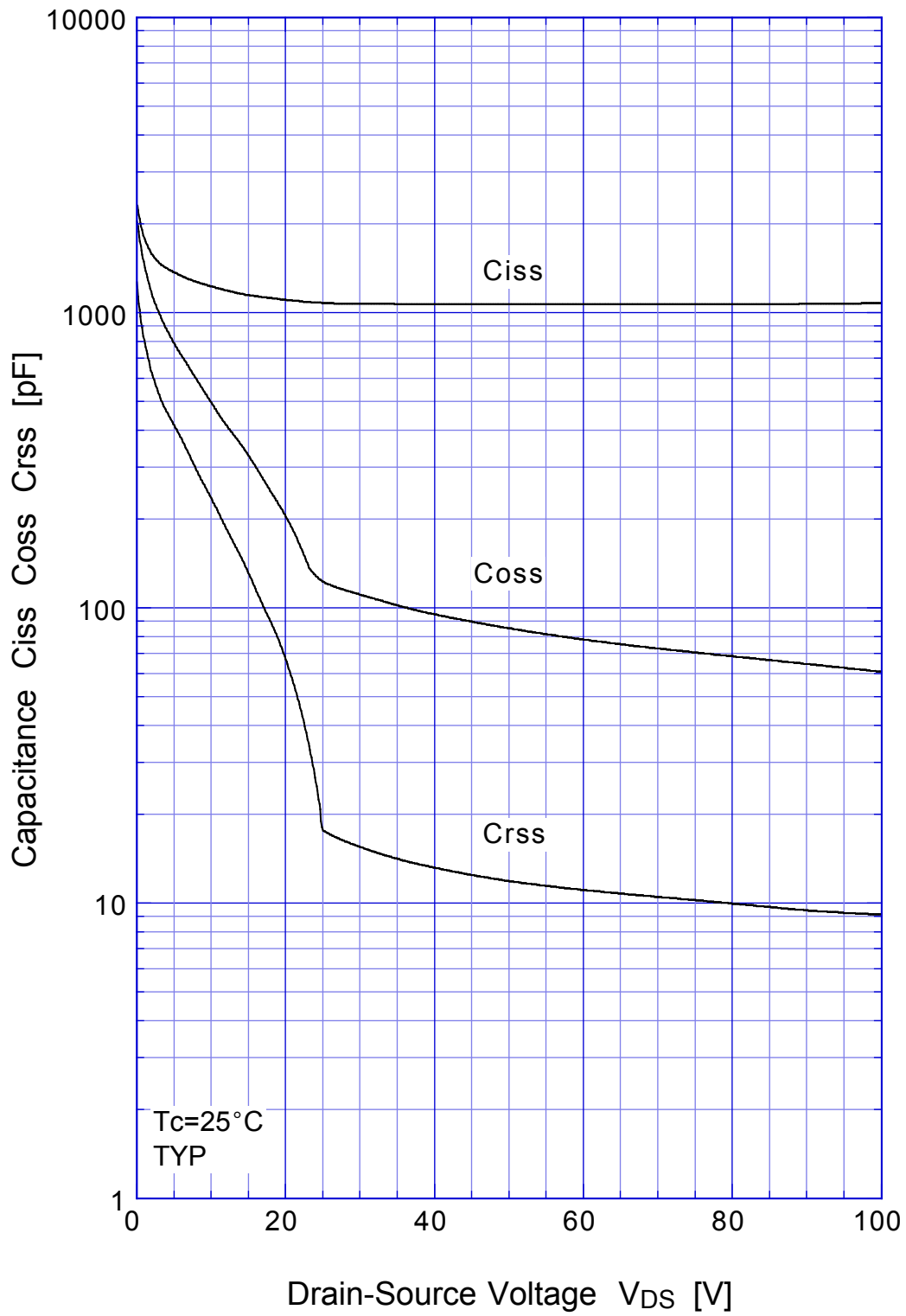
2SK2333 Transient Thermal Impedance



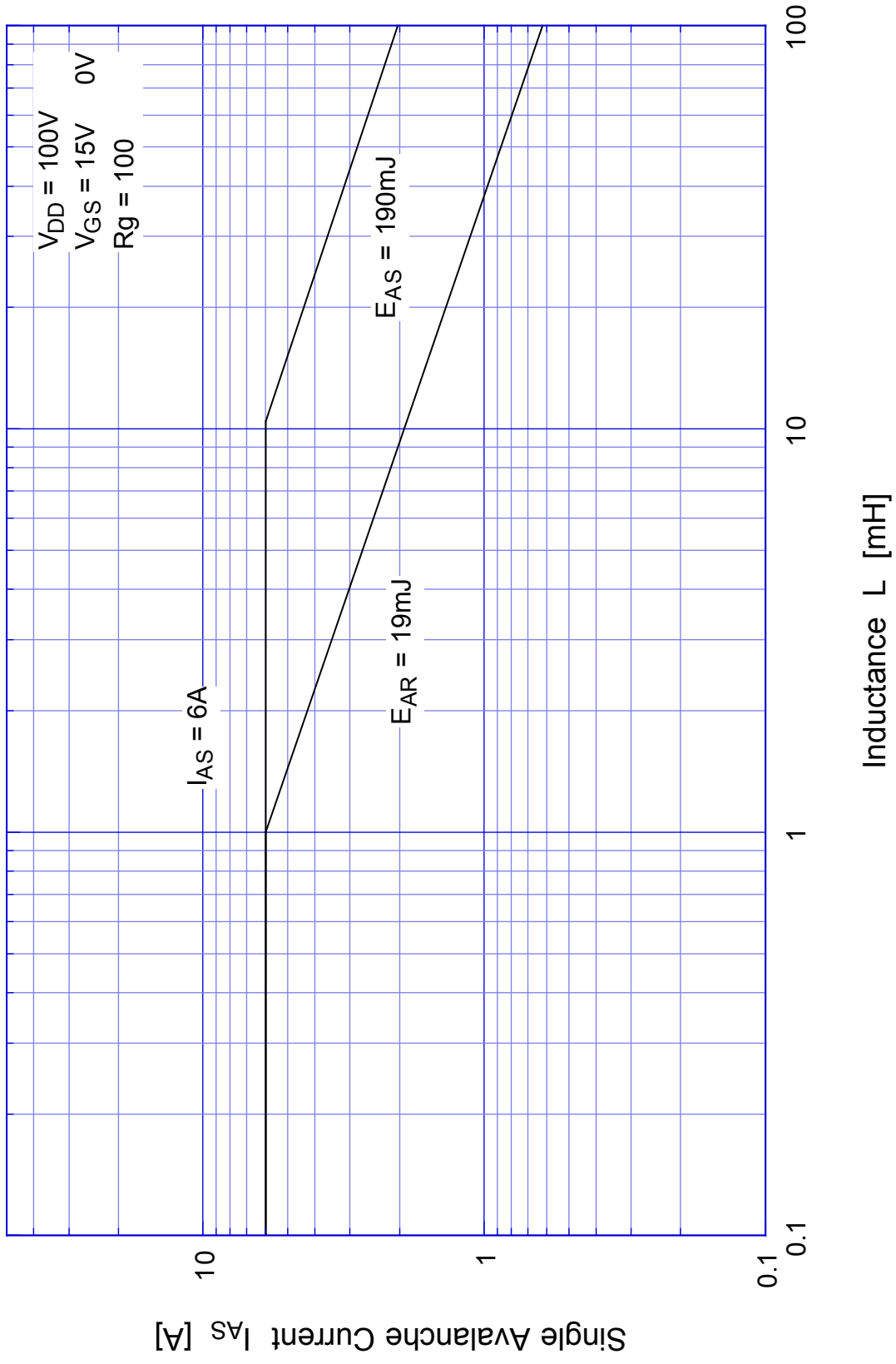
2SK2333 Single Avalanche Energy Derating



2SK2333 Capacitance

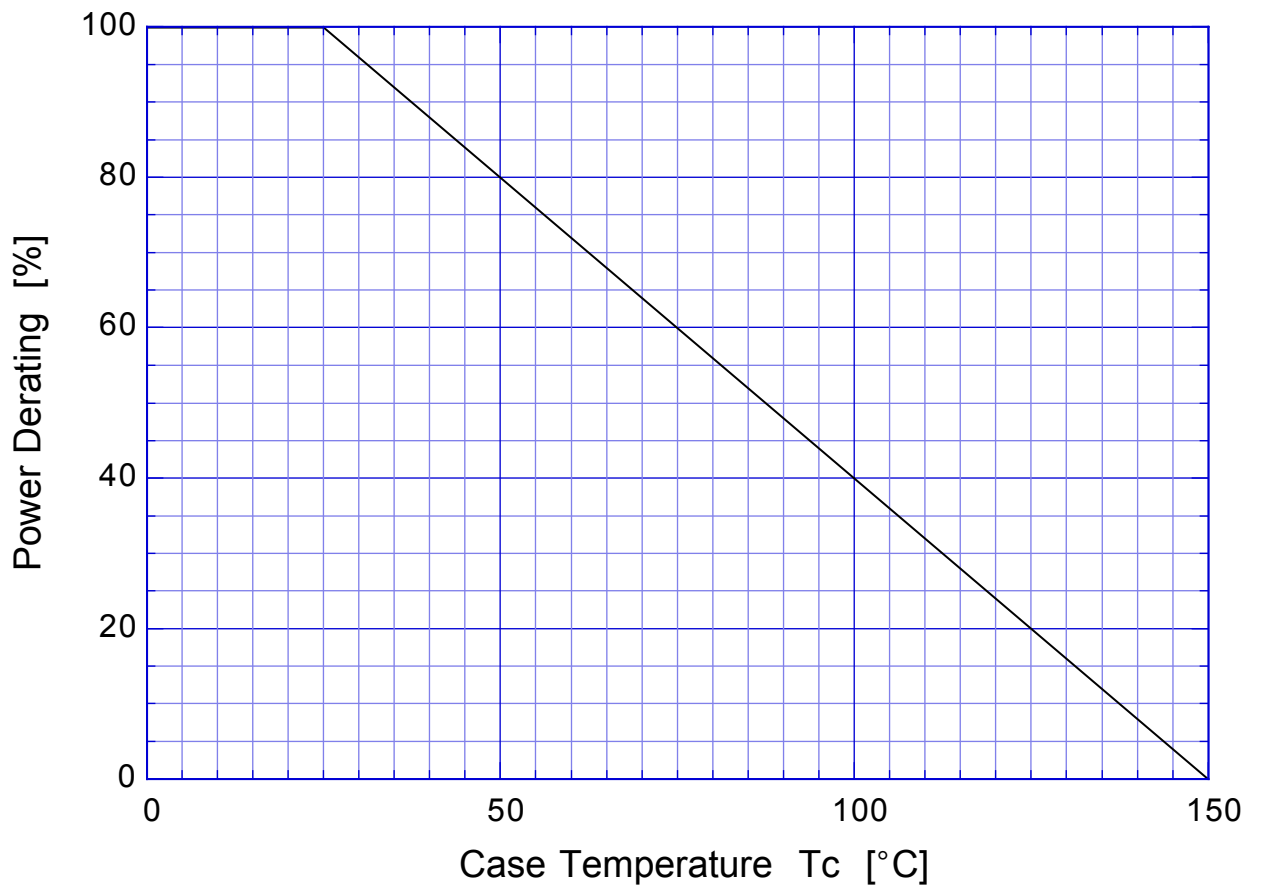


2SK2333 Single Avalanche Current - Inductive Load



2SK2333

Power Derating



2SK2333 Gate Charge Characteristics

