



# NVBG060N065SC1

## THERMAL CHARACTERISTICS

Parameter	Symbol	Typ	Max	Units
Thermal Resistance Junction to Case (Note 2)	R			

# NVBG060N065SC1

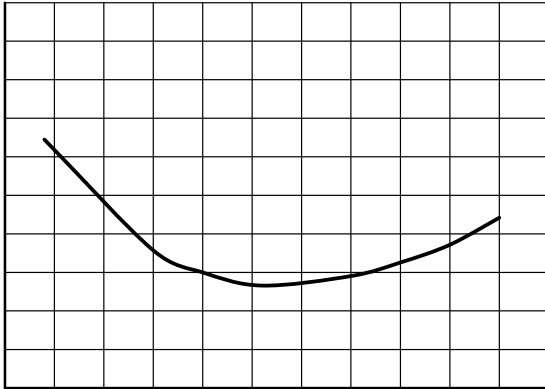
ELECTRICAL CHARACTERISTICS (T<sub>J</sub> = 25°C unless otherwise stated)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
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SOURCE iDRAIN DIODE CHARACTERISTICS

Reverse Recovery Time	t <sub>RR</sub>	V <sub>GS</sub> = i5/18 V, I <sub>SD</sub> = 20 A, di <sub>S</sub> /dt = 1000 A/ s (Note 5)		17.7		ns
Reverse Recovery Charge	Q <sub>RR</sub>		90.6		nC	
Reverse Recovery Energy	E <sub>REC</sub>		8.7		J	
Peak Reverse Recovery Current	I <sub>RRM</sub>		10.2		A	
Charge time	T <sub>a</sub>		9.8		ns	
Discharge time	T <sub>b</sub>		7.8			

TYPICAL CHARACTERISTICS



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TYPICAL CHARACTERISTICS

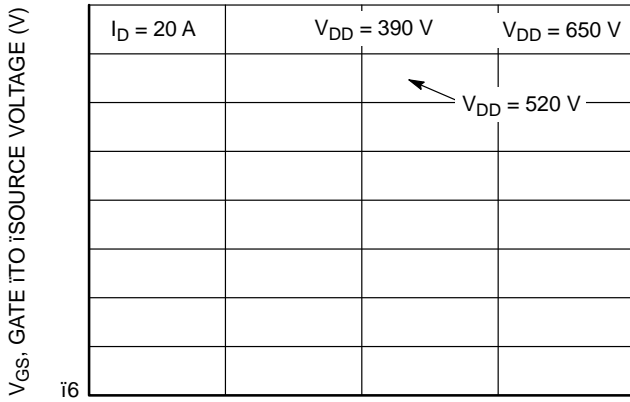


Figure 7. Gate-to-Source Voltage vs. Total Charge

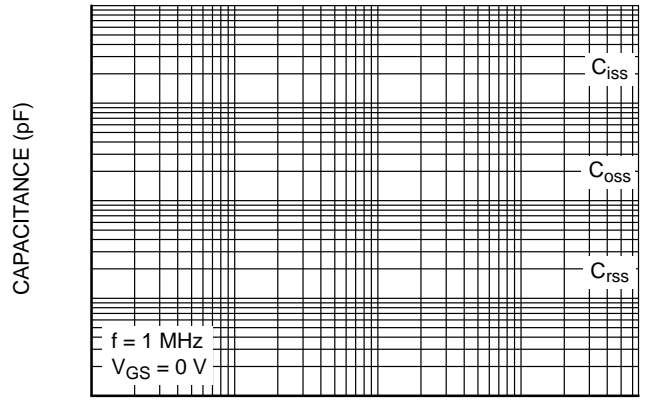


Figure 8. Capacitance vs. Drain-to-Source Voltage

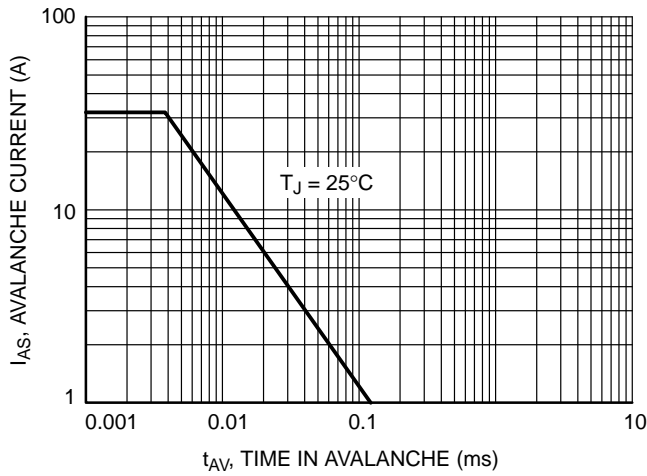


Figure 9. Unclamped Inductive Switching Capability

Figure 10. Maximum Continuous Drain Current vs. Case Temperature

Figure 11. Safe Operating Area

Figure 12. Single Pulse Maximum Power Dissipation

TYPICAL CHARACTERISTICS

Z<sub>JC</sub>: EFFECTIVE TRANSIENT THERMAL  
RESISTANCE (°C/W)

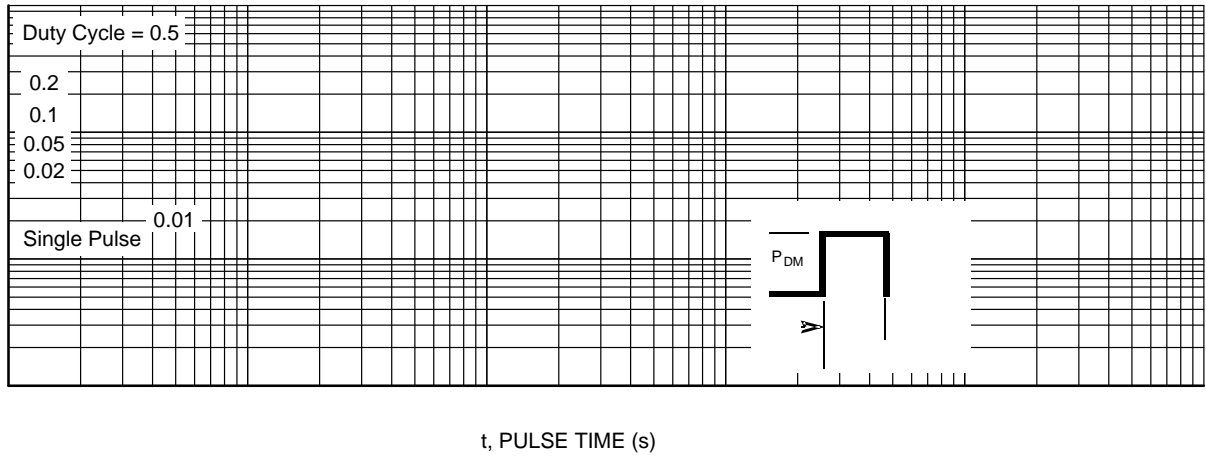


Figure 13. Junction to Case Transient Thermal Response

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