

Silicon Carbide (SiC)  
MOSFET - EliteSiC,  
 32 mohm, 650 V, M3S,  
 D2PAK-7L

NTBG032N065M3S

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(T<sub>J</sub> = 25°C unless otherwise noted)

Drain-to-Source Voltage	V <sub>DSS</sub>	650	V
Gate-to-Source Voltage	V <sub>GS</sub>	-8/+22	

$\mu\text{s}$

		I <sub>DM</sub>	156	A
Continuous Source-Drain Current (Body Diode)	T <sub>C</sub> = 25°C, V <sub>GS</sub> = -3 V	I <sub>S</sub>	30	
	T <sub>C</sub> = 100°C, V <sub>GS</sub> = -3 V		17	
Pulsed Source-Drain Current (Body Diode) (Note 1)	T <sub>C</sub> = 25°C, V <sub>GS</sub> = -3 V, t <sub>p</sub> = 100 $\mu\text{s}$	I <sub>SM</sub>	127	
Single Pulse Avalanche Energy (Note 2)	I <sub>LPK</sub> = 16.7 A, L = 1 mH	E <sub>AS</sub>		



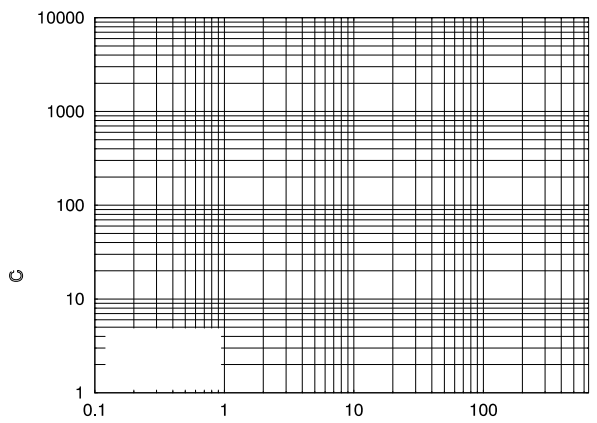
(T<sub>J</sub> = 25°C unless otherwise specified) (continued)

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Turn-On Delay Time	t <sub>d(ON)</sub>	V <sub>GS</sub> = -3/18 V, I <sub>D</sub> = 15 A, V <sub>DD</sub>
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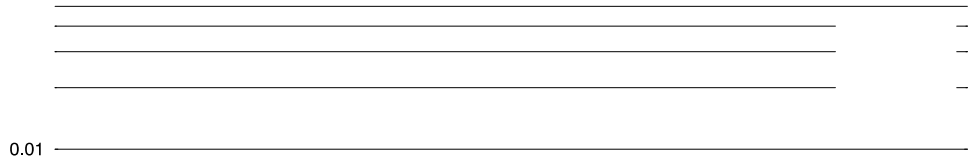
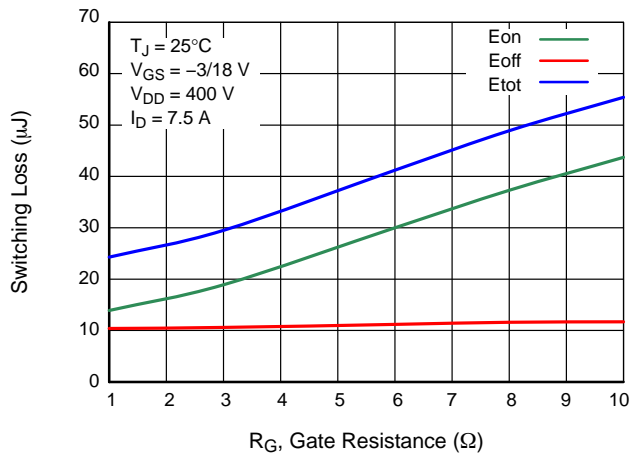
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**D<sup>2</sup>PAK7 (TO-263-7L HV)**  
CASE 418BJ  
ISSUE B

DATE 16 AUG 2019

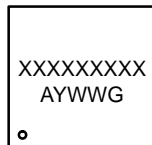
A

c2

H

C

**GENERIC  
MARKING DIAGRAM\***



XXXX = Specific Device Code  
A = Assembly Location  
Y = Year  
WW = Work Week  
G = Pb-Free Package

\*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.



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