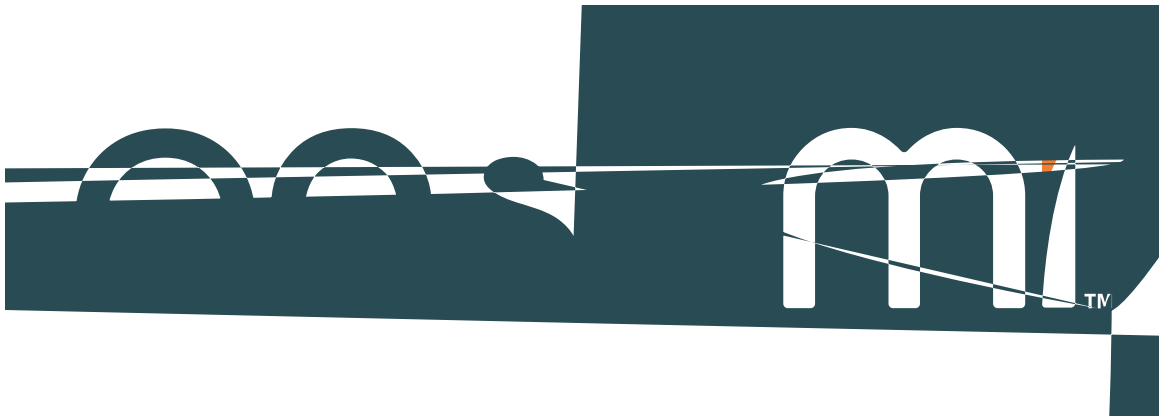


Is Now Part of



For more information, please visit our website at
www.nsmi.com

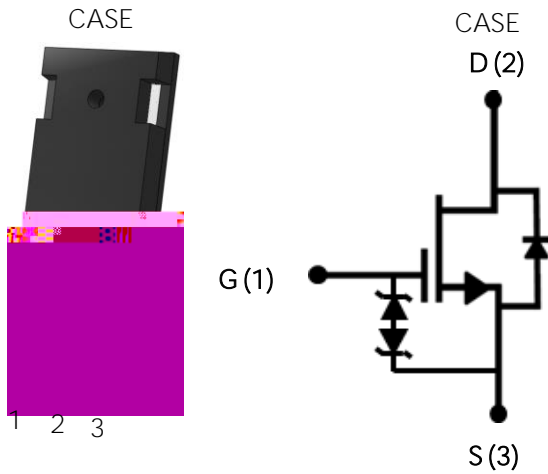


* >5DC 2 4>78}* > ~ 2J5D78žfv + ŵ
 / 1/8* > e' DO 8l # w = 2CC81ē
 + \$ w ¥ \$ w! e 3 4 j ~ e ž i B D = B

DATASHEET

Rev. E, January 2025

UJ3C065080K3S



Part Number	Package	Marking
UJ3C065080K3S	TO-247-3L	UJ3C065080K3S





Maximum Ratings

Symbol	Value	Units
V_{DS}	650	V
V_{GS}	-25 to +25	V
	31	A
	23	A
I_{DM}	65	A
E_{AS}	33	mJ
P_{tot}	190	W
$T_{J,max}$	175	°C
T_J, T_{STG}	-55 to 175	°C
T_L		





Typical Performance - Dynamic

	Min	Typ	Max
C_{iss}			



Typical Performance Diagrams

Figure 1. Typical output characteristics at $T_J = -55^\circ\text{C}$,
 $t_p < 250\text{ms}$

Figure 2. Typical output characteristics at $T_J = 25^\circ\text{C}$,
 $t_p < 250\text{ms}$

Figure 3. Typical output characteristics at $T_J = 175^\circ\text{C}$,
 $t_p < 250\text{ms}$

Figure 4. Normalized on-resistance vs. temperature
at $V_{GS} = 12\text{V}$ and $I_D = 20\text{A}$





Figure 13. Typical capacitances at $f = 100\text{kHz}$ and $V_{GS} = 0\text{V}$

Figure 14. DC drain current derating





TO-247-3L PACKAGE OUTLINE, PART MARKING

onsemi, **onsemi**, and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "**onsemi**" or its affiliates and/or subsidiaries in the United States and/or other countries. **onsemi** owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of **onsemi**'s product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. **onsemi** reserves the right to make changes at any time to any products or information herein, without notice. The information herein is provided "as-is" and **onsemi** makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or suitability of its products for any particular purpose, nor does **onsemi** assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using **onsemi**
