C3M0120065K
Transition Guide

Wolfspeed SEPTEMBER 2024

SUGGESTED REPLACEMENT

	C3M0120065K	C3M0060065K	Notes
Status	EOL issued Oct 2024	Active	200mm samples available now. Full release Q1 2025
$V_{DS\ max}$ (V)	650	650	
V_{GS} (V)	-4/+15	-4/+15	
I_D (A)	22	37	
$R_{DS(ON)}$ (mΩ)	120	60	Significantly lower conduction losses
C_{oss} (pF)	45	80	
C_{iss}/C_{rss}	278	113	
Q_G (nC)	28	46	Increased gate drive power
$R_{G(int)}$ (Ω)	6	3	
$R_{\theta JC}$ (C/W)	1.53	0.99	Reduced thermal impedance
Package	TO-247-4	TO-247-4	Fully Compatible
Pricing			Similar Price

This replacement option is suitable for most designs and will result in improved performance for conduction loss dominated applications

All parameters are typical values at 25 °C unless noted

NEXT STEPS

- Samples of recommended replacements available through your Wolfspeed sales team, or at our online Sample Center
- Ask any technical questions to your Wolfspeed FAE or through our Power Applications Forum
- Utilize SpeedFit™ to simulate the performance of the recommended replacement devices
  - Keep in mind, dynamic behavior may be different, requiring a different gate resistor value
- The SpeedVal™ Kit evaluation platform may be utilized to compare the performance and switching behavior

THANK YOU