



Meeting Demand From the World's Most Rapidly Growing Industries

In the second half of 2023, we're driving global innovation with new Super Junction Rectifiers, Gallium Nitride (GaN) FETs, Super Junction Silicon MOSFETs, Silicon N-Channel Enhancement Mode MOSFETs, and high-speed silicon carbide MOSFETs.

600V Super Junction Rectifiers: 15A - 30A in TO-247 package

Central Item Numbers

Available at Launch

CRU24715-600	15A, 600V	TO-247
CRU24730-600	30A, 600V	TO-247

Features

- High voltage capability
- Dual diode for high current capability
- Low trr (as low as 30ns)
- Thermally efficient package

Applications

- Power Factor Correction (PFC)
- Continuous Conduction Mode (CCM)
- Switch Mode Power Supplies (SMPS)



EXPECTED RELEASE: August 29, 2023

Gallium Nitride (GaN) FETs: 10A - 60A | 40V, 100V, 650V

Central Item Numbers

Available at Launch

CDF56G6511N	11A, 650V	DFN5X6A
CDF56G6517N	17A, 650V	DFN5X6A
CCSPG1060N	60A, 100V	CSP3.5X2
CPG002-CDFG6510N	10A, 650V	Bare Die
CPG001-CDFG6515N	15A, 650V	Bare Die

Available on Request

CDFG6511N	11A, 650V	DFN8X8
CDFG6517N	17A, 650V	DFN8X8
CCSPG0420N	20A, 40V	CSP2X2
CCSPG0450N	50A, 40V	CSP5X4

Features

- High voltage capability (up to 650V)
- Low gate charge & rDS(ON) (as low as 3.2mΩ)
- Efficient fast switching
- Space-saving DFN and chip scale style packages
- Also available as bare die

Applications

- Wireless charging (high power)
 - Defense/aerospace
 - Healthcare
 - Consumer
- Power Factor Correction (PFC) stages
- Electric vehicle inverters



EXPECTED RELEASE: October 3, 2023

NOTE: Specifications are preliminary and are subject to change prior to product release.

650V Super Junction Silicon MOSFETs in TO-220FP package

Central Item Numbers

Available at Launch

CDMSJ2204.7-650	4.7A, 650V	TO-220FP
CDMSJ2207.3-650	7.3A, 650V	TO-220FP
CDMSJ22010-650	10A, 650V	TO-220FP
CDMSJ22013.8-650	13.8A, 650V	TO-220FP
CDMSJ22029-650	29A, 650V	TO-220FP

Features

- Low on resistance
- High blocking voltage
- Fast switching speeds

Applications

- Electric vehicle inverters
- Solar power inverters
- Power Factor Correction
- Switch Mode Power Supplies (SMPS)



EXPECTED RELEASE: October 24, 2023

Silicon N-Channel Enhancement Mode MOSFETs: 40V - 75V in SOIC-8 package

Central Item Numbers

Available at Launch

CWDM408P8N	8.8A, 40V	SOIC-8
CWDM609P8N	9.8A, 60V	SOIC-8
CWDM7511P3N	11.3A, 75V	SOIC-8

Features

- Low $r_{DS(ON)}$ (as low as 4.0m Ω)

- High drain current (11.3A)
- Energy efficiency

Applications

- Audio amplifiers (Class AB, D)
- Driver circuits (stepper motors)
- Electric motors (motor drives)
- Power controllers
- Power integrated circuit for power-system protection

- Switch Mode Power Supplies (SMPS)
- Uninterruptible power supply
- Solar energy & power
- Rechargeable batteries
- Voltage regulators



EXPECTED RELEASE: November 21, 2023

1200V Silicon Carbide MOSFET designed for high speed switching

Central Item Numbers

Available at Launch

CDMS24775-120	36A, 1200V	TO-247
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Features

- Positive temperature coefficient
- Low reverse leakage current
- Temperature independent switching characteristics
- High operating junction temperature

Applications

- Power inverters
- Industrial motor drives
- Switch-mode power supplies
- Power Factor Correction
- Over-current protection



EXPECTED RELEASE: Q4 2023

NOTE: Specifications are preliminary and are subject to change prior to product release.