

Good-Ark Semiconductor is a leading global discrete semiconductor manufacturer that offers a wide variety of surface mount, through-hole and wafer devices with superior quality and reliability at competitive costs. Good-Ark manufactures innovative discrete semiconductors with increased power density and energy efficiency in pursuit of environmental sustainability and cost effectiveness.

DISCRETE  
SEMICONDUCTORS  
EMPOWERING  
YOUR DESIGN

## Broad Product Portfolio

Good-Ark Semiconductor provides the following product families in various package types from through-hole to surface mount devices as well as wafer/bare die for hybrid applications. Good-Ark has both the fl and R&D capability of providing custom devices to meet customers' specific requirements.

- ✧ Diodes
- ✧ Rectifiers
- ✧ Bridge Rectifiers
- ✧ Protection Devices (TVS, Chip Fuses & Thermistors)
- ✧ Thyristors (SCRs & Triacs)
- ✧ Transistors
- ✧ Small Signal MOSFETS
- ✧ Power MOSFETS (supported by Trench Technology)
- ✧ MEMS (Accelerometers & Magnetometers)

## Continuous Improvement and Dedication to Perfect Quality, Environmental Commitment and Employee Well-being

Good-Ark strives to conduct its operation based on the industry's highest quality and environment standards. The company has been certified as follows:

- ✧ Quality: ISO9001:2008
- ✧ Automotive: ISO/TS16949
- ✧ Environment: ISO14001 & QC080000
- ✧ Health & Safety: OHSAS18001
- ✧ Information Security: ISO/EC2700

## World Class Manufacturing Facilities with Scalability and a Cost Effective Industry Supply Chain

From the front-end wafer development to back-end packaging, Good-Ark has a well-established supply chain to maximize efficiency.

- ✧ Over 2 million square feet of world class manufacturing facilities
- ✧ Class 10,000 Clean Room
- ✧ Assembly and testing capacity for
  - Diodes: 701KK/month
  - SMA/SMB/SMC: 182KK/month
  - QFN/DFN: 330KK/month

## Global Presence with Local Customer Support

Good-Ark provides global sales networks and technical support to serve customers locally.

- ✧ Direct sales force in North America and Asia to offer real time support from the manufacturer
- ✧ Extensive authorized distributors and manufacturer rep networks
- ✧ Free samples available for immediate testing
- ✧ Engineering resources for all technical support

For more information or to order FREE samples, please call 631-319-1858 or email [inquiry@goodarksemi.com](mailto:inquiry@goodarksemi.com)

GOOD-ARK



GOOD-ARK SEMICONDUCTOR

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**DIVERSE**  
ELECTRONICS

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[www.diverseelectronics.com](http://www.diverseelectronics.com)





DIODES

- Switching
- 30V thru 400V  
75mA thru 300mA
- Schottky
- 20V thru 100V  
30mA thru 1.0A
- Zener
- 150mW thru 3000mW  
0.8V thru 200V
- Temperature Compensated Zener
- 5.1V thru 39V
- Current Limiting
- 18mA thru 41.5mA

RECTIFIERS

- General Purpose
- 50V thru 5000V  
1.0A thru 70A
- Fast Recovery
- 50V thru 1000V  
1.0A thru 6.0A
- Ultra-Fast Recovery
- 50V thru 1000V  
1.0A thru 6.0A
- Super-Fast Recovery
- 50V thru 1000V  
1.0A thru 30A
- Schottky
- 20V thru 200V  
1.0A thru 70A
- Silicon Carbide Schottky
- 600V thru 1700V  
4A thru 40A

BRIDGE RECTIFIERS

- General Purpose
- 20V thru 1000V  
0.5A thru 35A
- Fast Recovery
- 20V thru 1000V  
0.5A thru 35A
- Schottky
- 20V thru 200V  
1.0A thru 5.0A

PROTECTION DEVICES

- ESD TVS
- Low Capacitance  
Extremely Low Capacitance
- Polymer and Ceramic ESD TVS
- Ultra Low Capacitance
- TVS
- 150W thru 5000W  
3.3V thru 550V
- Chip Fuses
- Fast Acting Chip Fuse – 200mA thru 10A  
Slow Blow Chip Fuse – 1.0A thru 7.0A  
High Inrush Chip Fuse – 1.0A thru 7.0A
- Thermistors
- PTC & NTC

TRANSISTORS

- General Purpose
- 6.0V thru 400V  
45mA thru 3.0A
- Saturated Switches
- 15V thru 60V  
200mA thru 3.0A
- Bias Resistors (Digital)
- 50V thru 100V  
100mA thru 1.0A
- MOSFETS
- Small Signal/Power MOSFETS
- N-Channel/P-Channel
- $V_{DS}$ =8V thru 900V  
 $I_D$ =100mA thru 245A
- Combinations
- Dual MOSFETS  
MOSFET + Schottky









































THYRISTORS

- SCRs
- 600V thru 2000V  
800mA thru 250A
- Triacs
- 600V thru 1600V  
600mA thru 110A

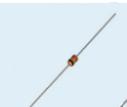

















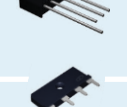

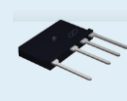



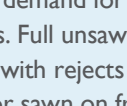
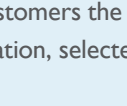

MEMS

- Three-Axis Accelerometers
- LGA-10 pins, 12 pins, 16 pins  
 $\pm 2g, \pm 4g, \pm 8g, \pm 16g$ , 14-bit
- Three-Axis Magnetometers
- BGA-14 pins  
 $\pm 48g$ , 16-bit
- Six-Axis Digital Compass

SMD PACKAGE TYPES (LxWxH) All dimensions are maximum value in mm

 DFN1006 1.00x0.60x0.40	 DFN 1010-5 1.00x1.00x0.50	 DFN 1608-02L 1.60x0.80x0.60	 DFN-3 1.60x1.60x0.60	 BGA-14 1.60x1.60x0.81	 DFN 1713-8L 1.70x1.35x0.60
 DFN2x2-6L 2.00x2.00x0.60	 LGA-12 2.00x2.00x1.10	 DFN 2510-10L 2.50x1.00x0.60	 DFN2x5-6L 2.00x5.00x0.80	 DFN3x2-8L 3.00x2.00x0.80	 DFN3x3-8L 3.00x3.00x0.80
 LGA-10 3.00x3.00x0.90	 LGA-16 3.00x3.00x0.90	 DFN5x6-8L 5.00x6.00x0.80	 QFN5x6 6.10x5.20x1.00	 DFN 6080-8L 6.00x8.00x0.80	
 SOD-923 1.05x0.65x0.41	 SOD-723 1.45x0.65x0.55	 SOD-523 1.70x0.90x0.70	 eSGP (SOD-323FL) 2.60x1.50x1.00	 SOD-323 2.70x1.35x1.00	
 SOD-123 3.55x1.7x1.25	 eSGA (SOD-123FL) 3.90x2.00x1.08	 iSGA 3.70x1.90x1.00	 eSGB (SMAF) 5.20x2.80x1.08	 DO-214AC (SMA) 5.20x2.65x2.25	
 DO-214AA (SMB) 5.46x3.73x2.61	 eSGC (TO-277) 6.60x4.30x1.20	 DO-214AB (SMC) 8.13x6.22x2.62	 eSGD (SMCF) 7.98x5.9x1.45		
 SOT-923 1.05x0.65x0.4	 SOT-723 1.25x1.25x0.55	 SOT-563 1.7x1.7x0.60	 SOT-523 1.70x1.70x0.80	 SOT-553 1.70x1.70x0.60	 SOT-353 2.20x2.10x1.10
 SOT-363 2.20x2.20x1.10	 SOT-323 (SC-70) 2.20x2.45x1.10	 SOT-23 3.00x2.64x1.10	 SOT-23-6 3.00x2.64x1.10	 SOT-89 4.70x4.50x1.70	 SOT-223 6.70x7.30x1.75
 TSOP-6 3.10x3.00x1.10	 SOP-8 5.00x6.00x1.65	 TSSOP-8 6.40x3.10x1.20	 GEMPAK 5060 6.10x5.00x1.10	 TO-252 (D-PAK) 10.40x6.70x2.40	 TO-263 (D*PAK) 15.60x10.20x4.80
 MBS 4.95x6.90x2.90	 SOPA-4 5.30x6.40x1.50	 LPMB 6.90x4.90x1.35	 DFL 8.30x10.10x1.75	 DFS 8.51x10.30x3.30	

THROUGH-HOLE PACKAGE TYPES

DO-34 Glass		TO-92	
DO-204AH (DO-35 Glass)		TO-251 (iPAK)	
DO-204AL (DO-41 Glass)		TO-262	
DO-204AL (DO-41)		TO-220AB	
DO-204AC (DO-15)		ITO-220AB	
A-405		TO-220AC	
R-1		ITO-220AC	
R-3		TO-247	
DO-201 AD		MBM	
P600		DF	
WOG		GBL	
KBL		KBPC-W	
KBTL-C			
GBJL		KBPC	

WAFER/BARE DIE

Good-Ark Semiconductor offers products in wafer/bare die form to fulfill customers' demand for hybrid, chip on board and wearable applications. Full unsawn wafers are available 100% tested and probed with rejects inked. Bare die is available in waffle packs or sawn on frame. Good-Ark Semiconductor offers customers the flexibility of special wafer diffusions, metallization, selected parts and custom devices.

