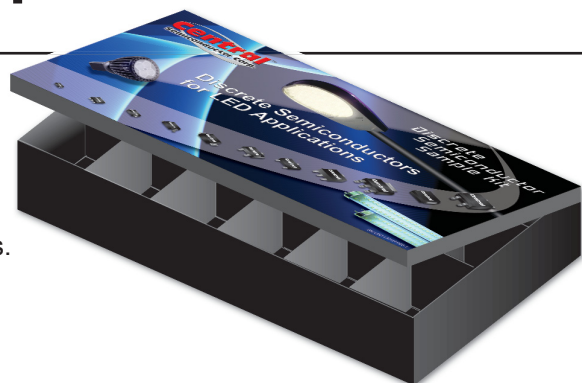


# Discrete Semiconductor Sample Kit

## Discrete Semiconductors for LED Applications

Central Semiconductor sample kits provide designers with the discrete semiconductor devices ideal for their latest design challenges. The contents of this 2 part sample kit include examples of Central Semiconductor devices most commonly used in high speed pulsed amplifiers and driver applications.



### Included in LED kit 1:

<b>CMSH1-20ML</b> Schottky Rectifier 20V, 1.0A $V_F=0.38V$ SMA Marking Code: CS20ML	<b>CMSH2-20M</b> Schottky Rectifier 20V, 2.0A $V_F=0.55V$ SMA Marking Code: CS220M	<b>CMSH2-20L</b> Schottky Rectifier 20V, 2.0A $V_F=0.40V$ SMB Marking Code: CS220L	<b>CMSH3-20MA</b> Schottky Rectifier 20V, 3.0A $V_F=0.50V$ SMA Marking Code: CS320MA	<b>CMSH3-20L</b> Schottky Rectifier 20V, 4.0A $V_F=0.42V$ SMC Marking Code: CS320L	<b>CMSH5-20</b> Schottky Rectifier 20V, 5.0A $V_F=0.55V$ SMC Marking Code: CS520
<b>CMSH1-40ML</b> Schottky Rectifier 40V, 1.0A $V_F=0.40V$ SMA Marking Code: CS40ML	<b>CMSH2-40M</b> Schottky Rectifier 40V, 2.0A $V_F=0.55V$ SMA Marking Code: CS240M	<b>CMSH2-40L</b> Schottky Rectifier 40V, 2.0A $V_F=0.40V$ SMB Marking Code: CS240L	<b>CMSH3-40MA</b> Schottky Rectifier 40V, 3.0A $V_F=0.50V$ SMA Marking Code: CS340MA	<b>CMSH3-40L</b> Schottky Rectifier 40V, 4.0A $V_F=0.44V$ SMC Marking Code: CS340L	<b>CMSH5-40</b> Schottky Rectifier 40V, 5.0A $V_F=0.55V$ SMC Marking Code: CS540
<b>CMSH1-100M</b> Schottky Rectifier 100V, 1.0A $V_F=0.85V$ SMA Marking Code: CS100M	<b>CMSH2-100M</b> Schottky Rectifier 100V, 2.0A $V_F=0.85V$ SMA Marking Code: CS2100M	<b>CMSH2-60</b> Schottky Rectifier 60V, 2.0A $V_F=0.70V$ SMB Marking Code: CS260	<b>CMSH3-100MA</b> Schottky Rectifier 100V, 3.0A $V_F=0.85V$ SMA Marking Code: CS3100MA	<b>CMSH3-60</b> Schottky Rectifier 60V, 3.0A $V_F=0.70V$ SMC Marking Code: CS360	<b>CMSH5-100</b> Schottky Rectifier 100V, 5.0A $V_F=0.85V$ SMC Marking Code: CS5100

### Included in LED kit 2:

<b>CMMSH1-20</b> Schottky Rectifier 20V, 1.0A $V_F=0.45V$  SOD-123F Marking Code: CS20F	<b>CTLSH1-40M621H</b> Schottky Rectifier 40V, 1.0A $V_F=0.6V$ $P_D=1.6W$ TLM621H Marking Code: CNE	<b>CTLSH2-40M832</b> Schottky Rectifier 40V, 2.0A $V_F=0.5V$ $P_D=1.9W$ TLM832 Marking Code: CFB	<b>CBRHD-06</b> Full Wave Bridge 600V, 0.5A $V_F=1.0V$ $I_R=5.0\mu A$ HD-DIP Marking Code: CBD6	<b>CMMSH2-40</b> Schottky Rectifier 40V, 2.0A $V_F=0.5V$  SOD-123F Marking Code: CS240F	<b>CMR1U-10M</b> Ultra Fast Rectifier 1000V, 1.0A $V_F=1.7V$ $I_R=5.0\mu A$ , $t_{rr}=100ns$ SMA Marking Code: CU10M
<b>CMMSH1-40L</b> Schottky Rectifier 40V, 1.0A $V_F=0.45V$  SOD-123F Marking Code: CS40FL	<b>CTLSH1-40M322</b> Schottky Rectifier 40V, 1.0A $V_F=0.55V$ $P_D=1.45W$ TLM322 Marking Code: CBA	<b>CTLSH3-30M833</b> Schottky Rectifier 30V, 3.0A $V_F=0.45V$ $P_D=2.5W$ TLM833 Marking Code: CHA1	<b>CBRHDHSH1-40L</b> Schottky Bridge 40V, 1.2A $V_F=0.44V$ $I_R=50\mu A$ HD-DIP Marking Code: CSH1	<b>CSHD10-45L</b> Schottky Rectifier 45V, 10A $V_F=0.75V$  DPAK Marking Code: Full P/N	<b>CMR3U-10M</b> Ultra Fast Rectifier 1000V, 3.0A $V_F=2.0V$ $I_R=5.0\mu A$ , $t_{rr}=100ns$ SMB Marking Code: CU310M
<b>CMMSH1-100</b> Schottky Rectifier 100V, 1.0A $V_F=0.85V$  SOD-123F Marking Code: CS100F	<b>CTLSH1-40M832D</b> Schottky Rectifier 40V, 1.0A $V_F=0.55V$ $P_D=1.65W$ TLM832D Marking Code: CFA	<b>CTLSH5-40M833</b> Schottky Rectifier 40V, 5.0A $V_F=0.52V$ $P_D=2.5W$ TLM833 Marking Code: CHA2	<b>CBRHDHSH2-40</b> Schottky Bridge 40V, 2.0A $V_F=0.5V$ $I_R=50\mu A$ HD-DIP Marking Code: CSH2	<b>CBRSDSH5-40</b> Schottky Bridge 40V, 5.0A $V_F=0.37V$ (typ) $I_R=40\mu A$ (typ) SMDIP Marking Code: Full P/N	<b>CMR5U-08</b> Ultra Fast Rectifier 800V, 5.0A $V_F=1.7V$ $I_R=10\mu A$ , $t_{rr}=100ns$ SMC Marking Code: CU508

Datasheets for the devices contained in this sample kit can be found at:

[www.centalsemi.com/engineering/samplekits](http://www.centalsemi.com/engineering/samplekits)

For a complete listing of products manufactured by Central Semiconductor Corp., please visit [www.centalsemi.com](http://www.centalsemi.com) or call 631-435-1110 and an experienced and knowledgeable account representative will gladly provide assistance.

**Central**  
Semiconductor Corp.

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



---

### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

---

### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

---

### REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

---

### CONTACT US

#### Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.  
145 Adams Avenue  
Hauppauge, NY 11788 USA  
Main Tel: (631) 435-1110  
Main Fax: (631) 435-1824  
Support Team Fax: (631) 435-3388  
[www.centrasemi.com](http://www.centrasemi.com)

**Worldwide Field Representatives:**  
[www.centrasemi.com/wwreps](http://www.centrasemi.com/wwreps)

**Worldwide Distributors:**  
[www.centrasemi.com/wwdistributors](http://www.centrasemi.com/wwdistributors)

---

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: [www.centrasemi.com/terms](http://www.centrasemi.com/terms)