

Discrete Semiconductor Sample Kit

DC-DC Power Supply Applications

Central Semiconductor sample kits provide designers with the discrete semiconductor devices ideal for their latest design challenges.

The contents of this 3 part sample kit include examples of Central Semiconductor devices most commonly used in DC-DC applications.



Included in kit 1:

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

Included in kit 2:

CMMSH1-20 Schottky Rectifier 20V, 1.0A $V_F=0.45V$ SOD-123F Marking Code: CS20F	CTLSH1-40M621H Schottky Rectifier 40V, 1.0A $V_F=0.6V$ $P_D=1.6W$ TLM621H Marking Code: CNE	CTLSH2-40M832 Schottky Rectifier 40V, 2.0A $V_F=0.5V$ $P_D=1.9W$ TLM832 Marking Code: CFB	CTLSH1-40M563 Schottky Rectifier 40V, 1.0A $V_F=0.55V$ $P_D=0.5W$ TLM563 Marking Code: CJB	CMPDM7002A N-Channel MOSFET 60V, 0.28A $r_{DS(ON)} = 2.0\Omega$ SOT-23 Marking Code: C702A	CMUDM7001 N-Channel MOSFET 20V, 0.2A $r_{DS(ON)} = 3.0\Omega$ SOT-523 Marking Code: C7A
CMMSH1-40L Schottky Rectifier 40V, 1.0A $V_F=0.45V$ SOD-123F Marking Code: CS40FL	CTLSH1-40M322 Schottky Rectifier 40V, 1.0A $V_F=0.55V$ $P_D=1.45W$ TLM322 Marking Code: CBA	CTLSH3-30M833 Schottky Rectifier 30V, 3.0A $V_F=0.45V$ $P_D=2.5W$ TLM833 Marking Code: CHA1	CMMSH2-40 Schottky Rectifier 40V, 2.0A $V_F=0.5V$ SOD-123F Marking Code: CS240F	CMPDM7120G N-Channel MOSFET 20V, 1.0A $r_{DS(ON)} = 0.1\Omega$ SOT-23 Marking Code: C71G	CMPDM8120 P-Channel MOSFET 20V, 0.86A $r_{DS(ON)} = 0.15\Omega$ SOT-23 Marking Code: C8120
CMMSH1-100 Schottky Rectifier 100V, 1.0A $V_F=0.85V$ SOD-123F Marking Code: CS100F	CTLSH1-40M832D Schottky Rectifier 40V, 1.0A $V_F=0.55V$ $P_D=1.65W$ TLM832D Marking Code: CFA	CTLSH5-40M833 Schottky Rectifier 40V, 5.0A $V_F=0.52V$ $P_D=2.5W$ TLM833 Marking Code: CHA2	CSHD10-45L Schottky Rectifier 45V, 10A $V_F=0.75V$ DPAK Marking Code: Full P/N	CMPDM8002A P-Channel MOSFET 50V, 0.28A $r_{DS(ON)} = 2.5\Omega$ SOT-23 Marking Code: C802A	CMUDM8001 P-Channel MOSFET 20V, 0.2A $r_{DS(ON)} = 8.0\Omega$ SOT-523 Marking Code: C8A

Kit 3 continued on reverse side →

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Included in kit 3:

CMDSH-3 Schottky Diode 30V, 100mA $V_F=0.8V$ SOD-323 Marking Code: S1	CMDSH2-4L Schottky Diode 40V, 200mA $V_F=0.5V$ SOD-323 Marking Code: S2L	CMSSH-3E Schottky Diode 40V, 200mA $V_F=1.0V$ $t_{rr}=5.0ns$ SOT-323 Marking Code: 31E	CMOD2004 Single Diode 240V, 200mA $V_F=1.0V$, $t_{rr}=50ns$ $I_R=100nA$ SOD-523 Marking Code: 04	CMDD4448 Single Diode 100V, 250mA $V_F=1.0V$ $t_{rr}=4.0ns$ SOD-323 Marking Code: 44	CMST3904 NPN Transistor 40V, 200mA $h_{FE}=100$ min. SOT-323 Marking Code: 1AC
CMDSH2-3 Schottky Diode 30V, 200mA $V_F=0.55V$ SOD-323 Marking Code: S2	CMDSH05-4 Schottky Diode 40V, 500mA $V_F=0.47V$ SOD-323 Marking Code: C55	CMSSH-3CE Dual, Schottky Diode Common Cathode 40V, 200mA $V_F=1.0V$, $t_{rr}=5.0ns$ SOT-323 Marking Code: 3CE	CMDD3003 Low Leakage Diode 180V, 600mA $V_F=1.1V$ $I_R=1.0nA$ SOD-323 Marking Code: 03C	CMSD2838 Dual, Diodes Common Cathode 75V, 200mA $V_F=1.0V$, $t_{rr}=4.0ns$ SOT-323 Marking Code: A6C	CMST3906 PNP Transistor 40V, 200mA $h_{FE}=100$ min. SOT-323 Marking Code: 2AC
CMDSH-4E Schottky Diode 40V, 200mA $V_F=1.0V$ $t_{rr}=5.0ns$ SOD-323 Marking Code: S1E	CMOSH-4E Schottky Diode 40V, 200mA $V_F=1.0V$ $t_{rr}=5.0ns$ SOD-523 Marking Code: 4E	CMSSH-3SE Dual, Schottky Diode In Series 40V, 200mA $V_F=1.0V$, $t_{rr}=5.0ns$ SOT-323 Marking Code: 3SE	CMSD7000 Dual, Diodes In Series 100V, 200mA $V_F=1.1V$, $t_{rr}=4.0ns$ SOT-323 Marking Code: 5CC	CMPD914 Single Diode 100V, 250mA $V_F=1.0V$ $t_{rr}=4.0ns$ SOT-23 Marking Code: C5D	CMST2222A NPN Transistor 40V, 600mA $h_{FE}=100$ min. SOT-323 Marking Code: 1PC

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

www.centrasemi.com/engineering/samplekits

For a complete listing of products
manufactured by Central Semiconductor Corp., please visit

www.centrasemi.com

or call

631-435-1110

and an experienced and knowledgeable account
representative will gladly provide assistance.