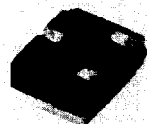
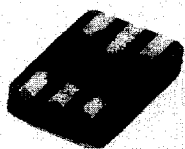


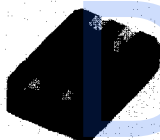
Ceramic surface mount devices and hermetic metal packages



LCC1



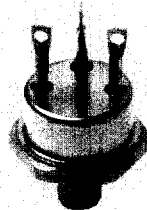
LCC2



LCC3



Medium-power LCC



TO63



TO111

LCC2 products

The following LCC2-packaged devices have been specifically designed to accommodate dual

transistors and diodes. The package is qualified to the same specifications as its smaller LCC1 counterpart.

Semelab number
1N4003CSMD
1N4003DCSM
1N4007CSMD
1N4007DCSM
1N5617CSMD
2N2221ADCSM
2N2221DCSM
2N2222ADCSM
2N2222DCSM
2N2369ADCSM
2N2438DCSM

Semelab number
1N2540DCSM
2N2639DCSM
2N2748DCSM
2N2641DCSM
2N2643DCSM
2N2643DCSM
2N2644DCSM
2N2894DCSM
2N2906ADCSM
2N2907ADCSM
2N2910DCSM

Semelab number
2N2914DCSM
2N2915DCSM
2N2914DCSM
2N2917DCSM
2N2918DCSM
2N2919DCSM
2N2920DCSM
2N2979DCSM
2N3029DCSM
2N3250DCSM
2N3347DCSM

Semelab number
2N3349DCSM
2N3350DCSM
2N3351DCSM
2N3352DCSM
2N3410DCSM
2N3400DCSM
2N3700DCSM
2N3807DCSM
2N3808DCSM
2N3809DCSM

Semelab number
2N3810DCSM
2N3811ADCSM
2N3811DCSM
2N3904DCSM
2N4938DCSM
BFX80DCSM
BFX81DCSM
BFX81DCSM
BFY82DCSM
BFY84DCSM

LCC3 products

This package was introduced to use the same die types and to meet the same specifications as LCC1. The LCC3 serves as an alternative for applications where a larger size is an advantage. Since the package has 4 pins, Semelab also manufactures high reliability matched diode pairs in the LCC3 package.

Our commitment to maintaining supplies means that even our earliest products are generally still available. We continue to build products in many obsolescent packages, such as SOT9, TO3, TO5 (38mm leads), TO8, TO18, TO39, TO46, TO53, TO59, TO61, TO63, TO66, TO72, TO77, TO83, TO111. For new designs, we recommend TO3, TO18 and TO39 and TO220 (metal), TO254, TO257, and TO258. Screening to all standards and customer specifications is available for all metal case products.

Medium-power LCC packages

This package is used for small to medium power products, including MOSFETs, bipolar transistors and 3-terminal voltage regulators.

TO220 metal/TO257 packages - opposite

We offer two Semelab versions of the TO220 metal product - with the same dimensions as the popular TO220 plastic device: the TO220 metal with 1mm leads, suitable for high current devices, and the TO257, which has 0.75mm leads and larger glass or ceramic seals, suitable for lower current applications and three terminal voltage regulator ICs.

Multi-chip LCC packages

The LCC 18 and larger packages are used for custom arrays of small signal transistors, mainly for high quality systems. Their key benefits include small size and low weight, with full qualification and screening to the highest specification. In multi-chip arrays, quality and performance is also enhanced by the reduction in number and length of interconnects. As with all Semelab products, the LCC16 and LCC18 are suitable for full space-flight applications

All products are available screened to any Military specification. Space qualified products are also available. The 2N2880 has been used as a basis for Semelab's ESA approval (TO220metal type) whilst TO257 devices with ceramic seals are used in other space systems.

Metal case products - opposite

Semelab manufactures metal cased products for all high-reliability and military applications.

For further information, please contact your Semelab agent or distributor or

Military-Aerospace Division hermetic metal packages

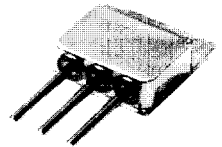
Semelab number
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2N5416-220M
2N6661-220M
2N708
2N708
2N7081-220M
2N7086
BDS10
BDS11
BDS12
BDS13
BDS14
BDS15
BDS16
BDS17
BDS18
BDS19
BDS20
BDS21
BFD10
BFD12
BFD14
BUL58A-SM
BUX77A-220M
BUX78A-220M
BUZ50A
BYT08-400-220M
BYV143-35AM
BYV143-35ASM
BYV143-35M
BYV143-35RM
BYV143-40AM
BYV143-40M
BYV143-40RM
BYV143-45AM
BYV143-45M
BYV143-45RM
BYV29-400M
BYV29-500M
BYV32-100M
BYV32-150M
BYV32-200M
BYV32-50M
BYV34-300M
BYV34-400M
BYV34-500AM
BYV34-500M
IP117AG

Semelab number
IP117AHVG
IP117AHVIG
IP117AIG
IP117G
IP117HVG
IP117HVIG
IP117IG
IP120AG-05
IP120AG-12
IP120AG-15
IP120G-05
IP120G-12
IP120G-15
IP123AG-05
IP123AG-12
IP123AG-15
IP123G-15
IP137AG
IP137AHVG
IP137AHVIG
IP137AIG
IP137G
IP137HVG
IP137HVIG
IP137IG
IP137MAIG
IP140AG-05
IP140AG-12
IP140AG-15
IP140AIG-05
IP140G-05
IP140G-12
IP140G-15
IP150AG
IP150AIG
IP150G
IP1R07AG
IP1R07G
IP1R17G-05
IP1R17G-12
IP1R17G-15
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IP317G
IP317IG
IP7805AG
IP7805AIG
IP7805G
IP7805IG
IP7812AG

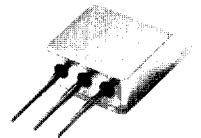
Semelab number
IP7812AIG
IP7812G
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IP7815G
IP7905AG
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IP7905G
IP7905IG
IP7912AG
IP7912AIG
IP7912G
IP7915AG
IP7915AIG
IP7915G
IP7915IG
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IRFY430

Semelab number
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IRFY633
IRFY710
IRFY711
IRFY712
IRFY713
IRFY720
IRFY721
IRFY722
IRFY723
IRFY730
IRFY731
IRFY732
IRFY733
IRFY820
IRFY821
IRFY822
IRFY823
IRFY830
IRFY831
IRFY832
IRFY833
IRFY9130
LM117-220M

Semelab number
LM117AHN-220M-ISO
LM117HV-220M
LM117IG
LM137-220M
LM137AHN-220M-ISO
LM137IG
LM337-220M
LM338-220M-ISO
LM7805-220M
LM7805A-220M
LM7805AA-220M
LM7808-220M
LM7812-220
LM7812-220M
LM7815-220M
LM7824-220M
LM7905-220M
LM7908-220M
LM7912-220M
LM7915-220M
LM7924-220M
LT1085-220M
LT1086-05-220M
LT1086-220M
SB10-100
SB10-100A
SB10-100RM
SB10-150M
SB10-150RM
SB16-100AM
SB16-100M
SB16-100RM
SB16-45AM
SB16-45M
SB16-45RM
SB30-100M
SB30-100RM
SB30-45M
SML1004R2GN
SML1004RGN
SML12-10A-220M
SML4065GN
SML4080GN
SML4585GN
SML501R1GN
SML5085GN
SML601R3GN
SML601R6GN
SML802R4GN
SML802R8GN



TO258



TO254



TO257 (G)



TO220M
(TO257AB)

TO254/TO258 packages

These are larger versions of the TO220 metal

and TO257 packages. The same level of qualification is also available for these types.

All TO220 metal and TO257 products have glass seals as standard. Ceramic bead seals are available as an option.

Bipolar, MOSFET, Power Diodes and Linear products are all available in the above packages.

Semelab number
BDS28A
BDS28B
BDS28C
BDS29A
BDS29B
BDS29C
BFC51M
BFD20
BFD22
BFD24
BFD26

Semelab number
BFD30
BFD32
IP138AQ
SML01N07
SML1002R4CN
SML1002RCN
SML1004R2CN
SML1004RCN
SML4030CN
SML4040CN
SML4065CN

Semelab number
SML4080CN
SML501R1CN
SML5040CN
SML5050CN
SML5085CN
SML601R3CN
SML6060CN
SML6070CN
SML801R2CN
SML801R4CN
SML802R4CN

Semelab number
SML802R8CN
BFD40
BFD43
BFD45
BFD47
BFD48
BUX25-TO258
SML1001R1HN
SML1001R3HN
SML1001RHN
SML4020HN

Semelab number
SML4025HN
SML5020HN
SML5025HN
SML5025HN-B
SML5030HN
SML6040HN
SML6045HN
SML8075HN
SML8090HN