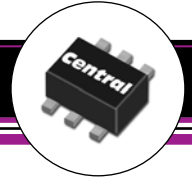


Multi Discrete Module in a SOT-563



features



- Multiple devices in a single SMD package
- Utilizes Basic Building Block (BBB) device combinations
- Space saving/low profile SOT-563 SMD package

description

Central Semiconductor is please to introduce Multi Discrete Modules™ (MDM™). These new devices consist of two or more basic building block (BBB) discrete semiconductors package in a space saving SOT-563 surface mount case. The combination of these devices in a single package effectively replace the need for individual discretes and therefore substantially reducing the board space utilized.

Multi Discrete Modules™ may also be manufactured in SUPERmini™ SOT-26 or ULTRAmulti™ SOT-363 packages. Requests for custom combinations are always welcomed.

The devices listed below are the first in the new MDM™ family. Additional MDM™ devices are currently in development. For the latest on these new devices, visit the "Multi Discrete Module" section of Central's website: www.centrasemi.com/mdm or contact Central's Sales Department at: (631) 435-1110.

Sample devices
are available
upon request.

•
SOT-563
Actual Size

PICOmini™

CASE
SIZE
•
SOT-563

selection guide

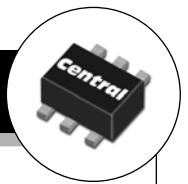
N-Channel MOSFET and Low V_F Schottky Diode

TYPE NO.	DESCRIPTION	PINOUT (TOP VIEW)	MOSFET Specifications						Low V _F Schottky Diode Specifications				
			r _{DS(ON)} @ I _D (Ω) MAX	I _D (A)	V _{GS(th)} (V) MIN	V _{GS(th)} (V) MAX	BV _{DSS} (V) MIN	t _{on} /t _{off} (ns) MAX	V _{RRM} (V) MAX	I _F (mA) MAX	V _F @ (V) MAX	I _F (mA)	
CMLM0205	Combination: N-Channel MOSFET and Low V _F Schottky diode		2.0	0.5	1.0	2.5	60	20/20	+	40	500	0.47	500

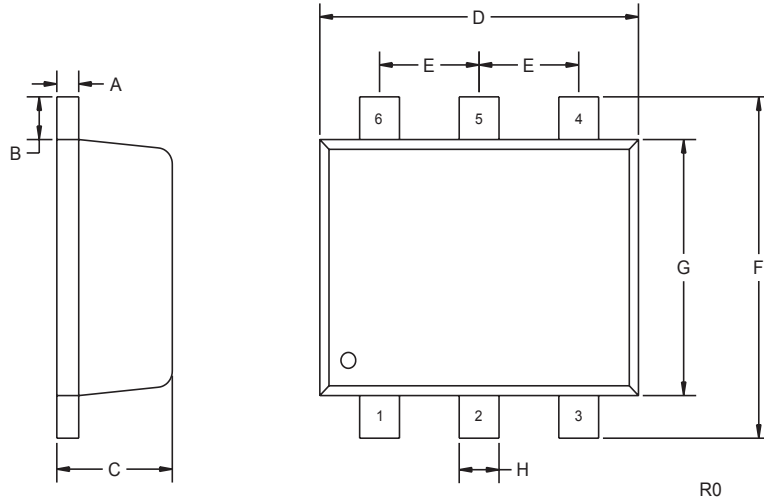
Low V_{CE(SAT)} Small Signal Transistor and Low V_F Schottky Diode

TYPE NO.	DESCRIPTION	PINOUT (TOP VIEW)	Low V _{CE(SAT)} Small Signal Transistor Specifications						Low V _F Schottky Diode Specifications				
			BV _{CBO} (V) MIN	BV _{CEO} (V) MIN	BV _{EBO} (V) MIN	V _{CE(SAT)} (V) TYP.	V _{CE(SAT)} (V) MAX	@ I _C (mA)	V _{RRM} (V) MAX	I _F (mA) MAX	V _F @ (V) MAX	I _F (mA)	
CMLM0405	Combination: Low V _{CE} (SAT) General Purpose NPN transistor and Low V _F Schottky diode		60	40	6.0	0.1	0.2	50	+	40	500	0.47	500
CMLM0605	Combination: Low V _{CE} (SAT) General Purpose PNP transistor and Low V _F Schottky diode		60	40	6.0	0.1	0.2	50	+	40	500	0.47	500
CMLM0705	Combination: Low V _{CE} (SAT) General Purpose PNP transistor and Low V _F Schottky diode		60	60	5.0	0.28	0.70	500	+	40	500	0.47	500
CMLM2205	Combination: Low V _{CE} (SAT) General Purpose NPN transistor and Low V _F Schottky diode		75	40	6.0	0.12	0.50	500	+	40	500	0.47	500

Multi Discrete Module in a SOT-563



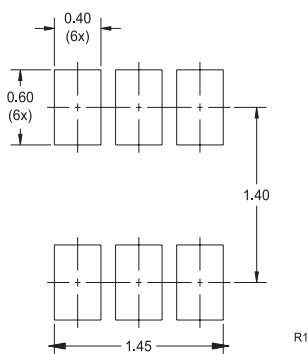
Mechanical Specifications - SOT-563



SYMBOL	DIMENSIONS		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.007	0.10	0.18
B	0.008		0.20	
C	0.022	0.024	0.56	0.60
D	0.059	0.067	1.50	1.70
E	0.020		0.50	
F	0.061	0.067	1.55	1.70
G	0.047		1.20	
H	0.006	0.012	0.15	0.30

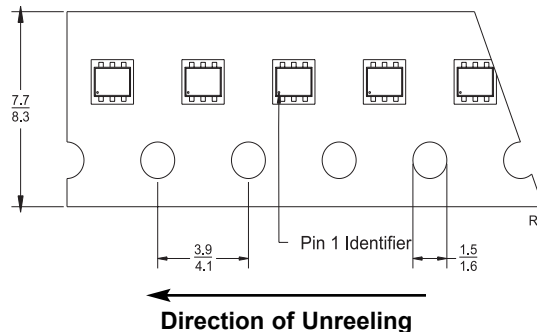
SOT-563 (REV: R0)

Mounting Pad Geometry (Dimensions in mm)



Tape Dimensions and Orientation (Dimensions in mm)

Tape Width: 8mm



* Devices are taped in accordance with Electronic Industries Association Standard EIA-481-1-A

Packaging Base

7" Reel = 3,000 pcs. (add TR suffix to part number)
Bulk = 1,000 pcs. (add BK suffix to part number)

Lead Code:

Reference individual device datasheet.

Marking Code:

CMLM0205: C25
CMLM0405: C45
CMLM0605: C65
CMLM0705: C75
CMLM2205: C22

Ordering Information

- For devices taped and reeled on 7" reels, add TR suffix to part number.
- For devices bulk packed, add BK suffix to part number.
- All SMDs are available bulk packed, for prototype and manual placement applications.

For complete package details please visit:
www.centalsemi.com/package/details

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For further information contact:
Sales at Central Semiconductor Corp.
(631) 435-1110 or visit our website at:
www.centalsemi.com