CMLB6263

PICOmini™
HIGH VOLTAGE
SCHOTTKY BRIDGE RECTIFIER

PICOmini™

SOT-563 CASE

Central™
Semiconductor Corp.

FEATURES:

- HIGH VOLTAGE (70V)
- LOW FORWARD VOLTAGE

MARKING CODE: 63B

DESCRIPTION:

The Central Semiconductor CMLB6263 incorporates four, high voltage, low V_F Schottky diodes arranged in a full wave bridge rectifier configuration, in a space saving SOT-563 surface mount package. This device is designed for fast switching applications requiring a low forward voltage drop.

MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	70	V
Continuous Forward Current	I_F	15	mA
Forward Surge Current, tp=1.0 s	I_{FSM}	50	mA
Power Dissipation	P_D	250	mW
Operating and Storage Junction Temperature	T_J,T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	V_R=50V		98	200	nA
BV_R	I_R=10μA	70			V
V_F	I_F=1.0mA		395	410	mV
C_T	V_R=0V, f=1.0MHz			2.0	pF
t_{rr}	I_R=I_F=10mA, I_{rr}=1.0mA, R_L=100Ω			5.0	ns

R0 (13-December 2002)

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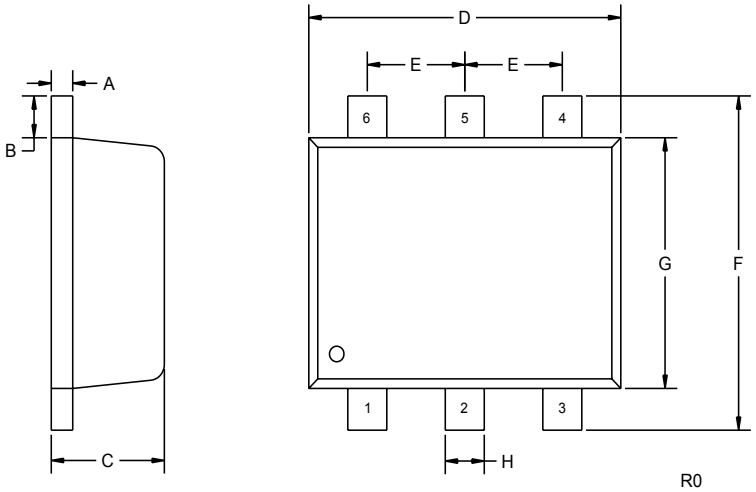
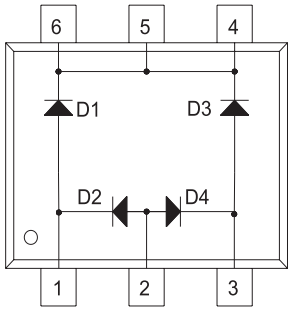
SOT-563 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)

Bridge Configuration



LEAD CODE:
1) AC
2) -
3) AC
4) +
5) +
6) +

MARKING CODE: 63B

R0 (13-December 2002)