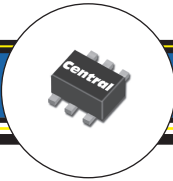


## 1 Amp Low $V_F$ Schottky Rectifier in the SOT-563



### CMLSH1-40



#### features

- $I_F = 1.0$  Amp
- $V_F = 0.45V$  @ 500mA
- $t_{rr} = 15ns$  (TYP)
- Package profile under 0.6mm

#### description


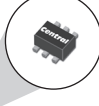
The Central™ Semiconductor CMLSH1-40 is a single 1.0 Amp, 40 Volt Low  $V_F$  Schottky Rectifier packaged in a space saving SOT-563 surface mount case. This PICOmini™ device has a Low  $V_F$  of 0.45V @ 500mA and 0.55V @ 1.0 Amp. The CMLSH1-40 is ideal for today's smallest electronic devices, which require a tiny 1.0 Amp Schottky rectifier with a low forward voltage drop.

Sample Devices  
available  
upon request.







#### selection guide



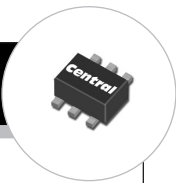
#### CMLSH1-40

$I_O$ (AMPS)	1.0
@ $T_A$ (°C)	25
$I_{FSM}$ (AMPS)	10
CASE	  Actual Size SOT-563
$V_{RRM}$ (VOLTS)	40
40	CMLSH1-40
$V_F$ max @ $I_F$	0.36V @ 100mA
$V_F$ max @ $I_F$	0.45V @ 500mA
$V_F$ max @ $I_F$	0.55V @ 1.0A
$I_R$ max @ $V_R$	50µA @ 15V

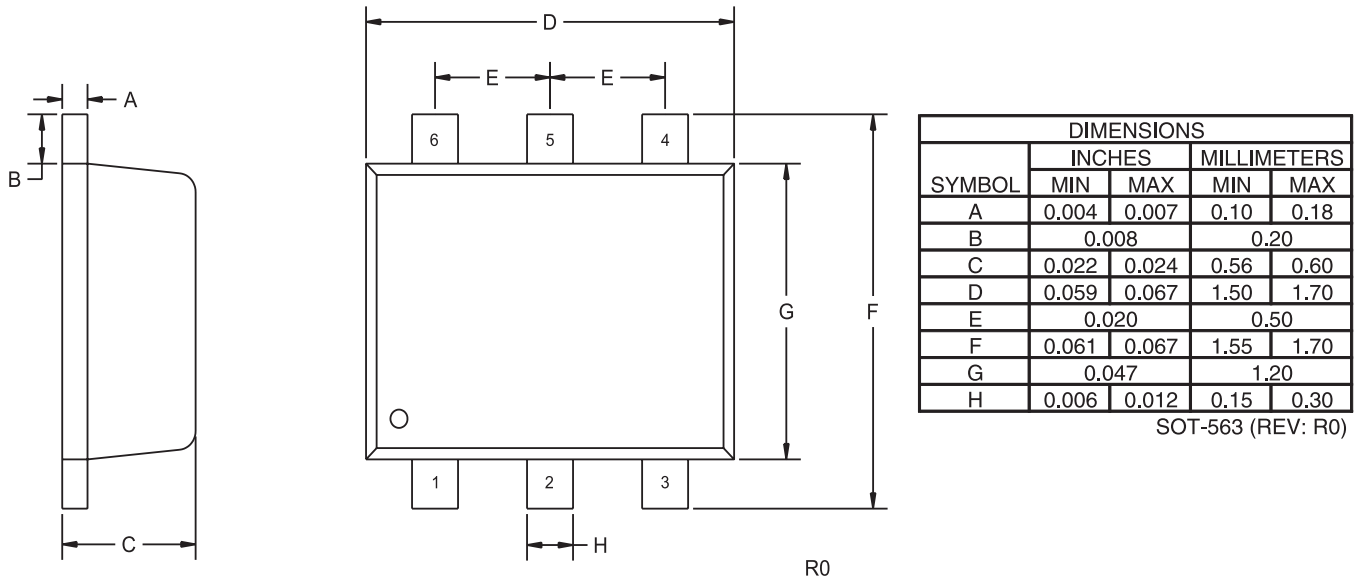
#### Other Surface Mount Schottky Rectifiers Manufactured by Central™

$I_O$ (AMPS)	1.0					
@ $T_A$ (°C)	25	25	25	25	25	25
$I_{FSM}$ (AMPS)	10	10	10	30	50	12
CASE	 Actual Size TLM621H	 Actual Size TLM322	 Actual Size TLM832D	 Actual Size SOD-123F		 Actual Size SOT-23F
$V_{RRM}$ (VOLTS)			Dual, Isolated			
40	CTLSH1-40M621H	CTLSH1-40M322	CTLSH1-40M832D	CMMSH1-40	CMMSH1-40L	CMPSH1-4
$V_F$ max @ $I_F$	0.36V @ 100mA	0.36V @ 100mA	0.36V @ 100mA	—	—	0.39V @ 100mA
$V_F$ max @ $I_F$	0.45V @ 500mA	0.45V @ 500mA	0.45V @ 500mA	—	—	0.48V @ 500mA
$V_F$ max @ $I_F$	0.55V @ 1.0A	0.55V @ 1.0A	0.55V @ 1.0A	0.55V @ 1.0A	0.45V @ 1.0A	0.55V @ 1.0A
$I_R$ max @ $V_R$	50µA @ 15V	50µA @ 15V	50µA @ 15V	500µA @ 40V	150µA @ 20V	100µA @ 30V

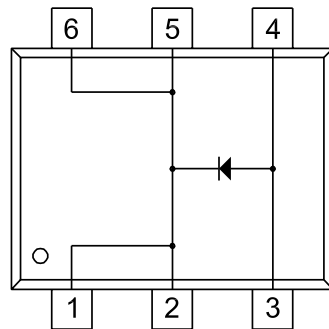
# 1 Amp Low $V_F$ Schottky Diode in the SOT-563



## Mechanical Specifications - SOT-563



## Lead Code



### LEAD CODE:

- 1) CATHODE
- 2) CATHODE
- 3) ANODE
- 4) ANODE
- 5) CATHODE
- 6) CATHODE

MARKING CODE: C41

**Central**<sup>TM</sup>  
Semiconductor Corp.

*Innovations in Discrete  
Semiconductors*

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

145 Adams Avenue • Hauppauge • New York • 11788 • USA • Tel:(631) 435-1110 • Fax:(631) 435-1824

PA CMLSH1-40