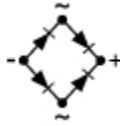


October 7, 2009

## World's First 5A Schottky Bridge in surface mount SMDIP package



### CBRSDSH5-40

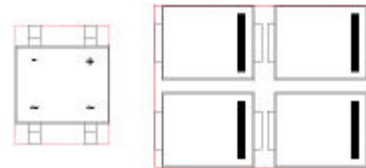
#### 5A, 40V Schottky Bridge

The Central Semiconductor CBRSDSH5-40 is a new Schottky Bridge Rectifier package in the SMDIP case. This energy efficient device is the world's first surface mount 5A, 40V full wave bridge rectifier with an exceptionally low  $V_F$  of 0.37V and an outstanding  $I_R$  of 40 $\mu$ A. The CBRSDSH5-40 is ideal for a broad range of solid state lighting and power management applications.

In addition, the CBRSDSH5-40 utilizes 56% less board space compared to four individual Schottky rectifiers in the SMC package. This bridge rectifier provides an ideal solution for the increasing number of applications with limited board space. Pricing for the CBRSDSH5-40 starts at US\$ 0.24 each for 1,000 pcs on 13" tape and reel. Sample devices are available upon request.

### Space Saving

The CBRSDSH5-40 utilizes **56% less board space than 4 SMC Schottky Rectifiers**



**Request samples today.**

#### Key Specification:

##### Maximum Ratings ( $T_A=25^\circ\text{C}$ )

	Symbol		Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	V
DC Blocking Voltage	$V_R$	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Forward Current. $T_A=60^\circ\text{C}$	$I_O$	5.0	A
Peak Forward Surge Current (8.3ms)	$I_{FSM}$	110	A
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-50 to +125	$^\circ\text{C}$

##### Electrical Characteristics per Diode ( $T_A=25^\circ\text{C}$ )

Symbol	Test Condition	TYP	MAX	UNITS
$I_R$	$V_R=40\text{V}$	40	70	$\mu\text{A}$
$V_F$	$I_F=1.0\text{A}$	370		mV

$V_F$	$I_F=2.0A$	400		mV
$V_F$	$I_F=3.0A$	430		mV
$V_F$	$I_F=4.0A$	460		mV
$V_F$	$I_F=5.0A$	500	550	mV
$C_J$	$V_R=4.0, f=1.0MHz$		500	pF

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**Datasheet for the CBRSDSH5-40:**

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**Samples:**

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**Spice Model:**

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**Package Detail for the SMDIP package:**

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**Product Brief:**

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**Material Composition:**

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**Applications:**

- Full Wave rectification
- Power management
- Solid State lighting applications



Halogen Free by design

**For more information on this product,  
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