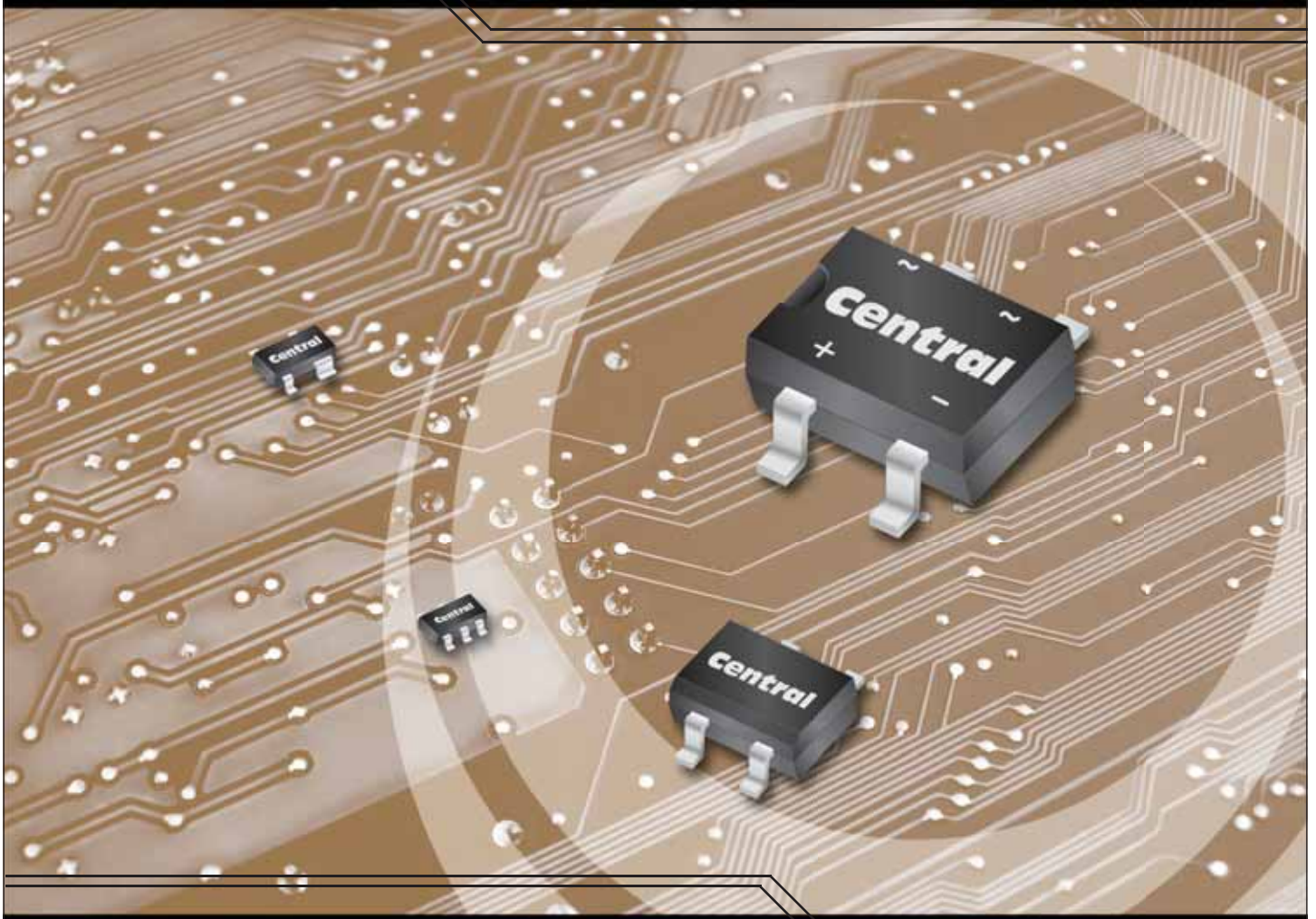


Space Saving Surface Mount Bridge Rectifiers

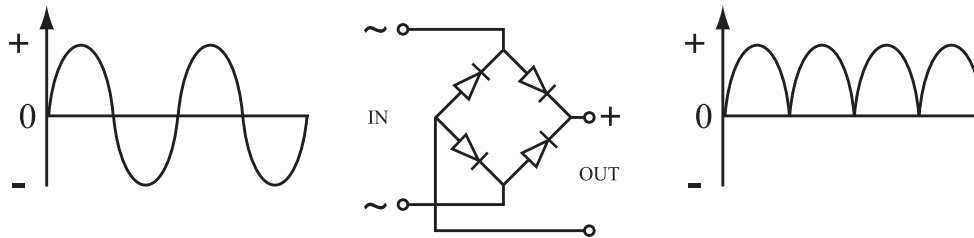


- General Purpose
- Fast Recovery
- Ultra Fast Recovery
- Schottky

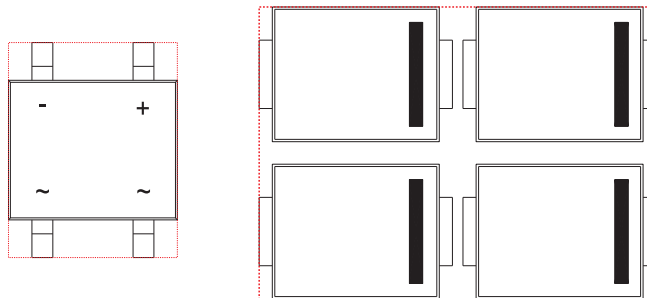
Central[™]
Semiconductor Corp.

Surface Mount Bridge Rectifier

Central Semiconductor Corp. manufactures a variety of SMD bridge rectifiers designed to provide full wave rectification.



Central's surface mount devices afford engineers the ability to realize significant space savings compared with larger individual devices.



Construction

All of Central's bridge rectifiers utilize glass passivated chips and are encapsulated in durable epoxy molding.

Applications

- Full wave rectification
- Data line protection
- Reverse polarity protection

End Products/Markets

- Power Supply / Power Management
- Solid State Lighting
- Any product requiring small space saving bridge rectifiers.

Bridge Rectifier Packages



SMDIP

8.51 x 10.41 x 2.49



HD DIP

4.9 x 7.0 x 2.7



SOT-143

3.04 x 2.50 x 1.14



SOT-363

2.2 x 2.3 x 1.1

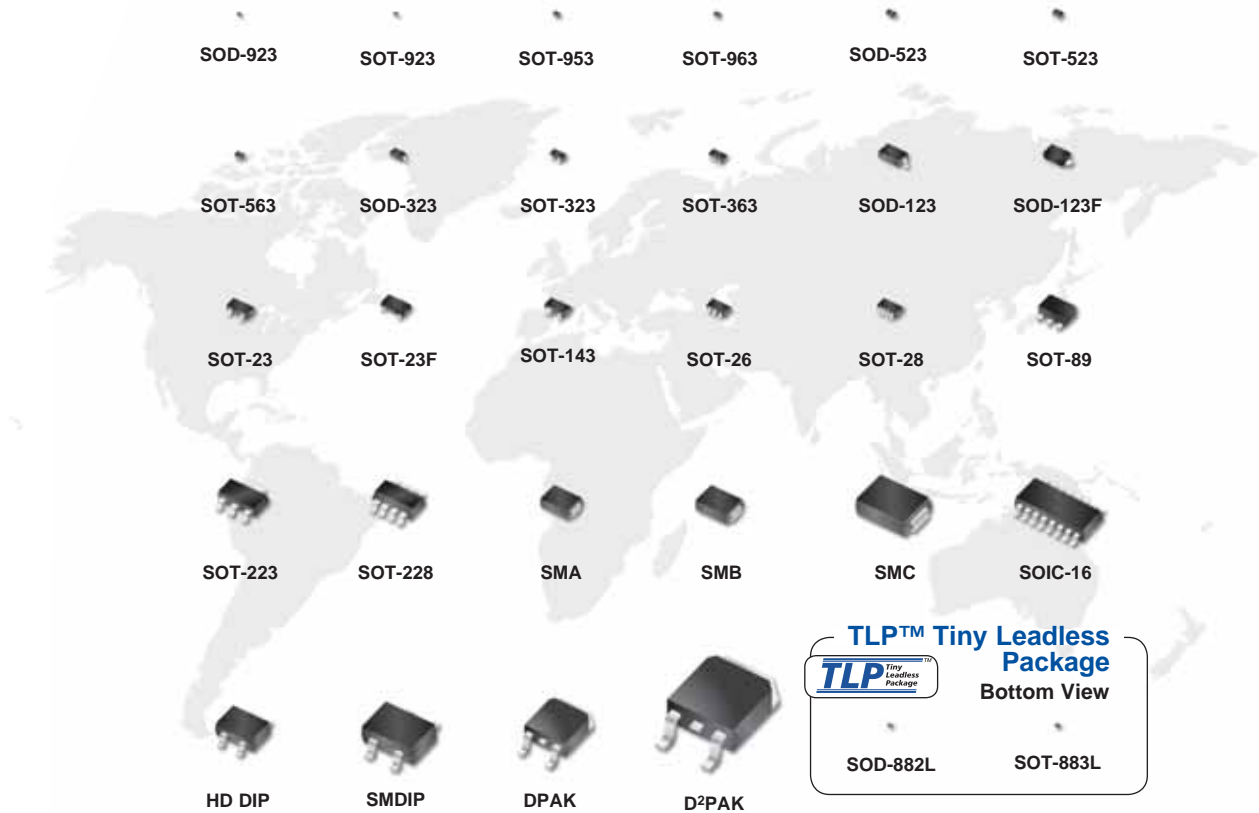
Bridge Rectifier Selection Guide

0.14A - 5.0A, 40V - 1000V

I _O (AMPS)	0.14		0.5	1.0	
@ T _A (°C)	25	25	40	25	50
I _{FSM} (AMPS)	-	-	30	20	50
CASE	 SOT-363	 SOT-143	 HD DIP	 HD DIP	 SMDIP
V _{RRM} (VOLTS)	GENERAL PURPOSE	GENERAL PURPOSE	GENERAL PURPOSE	SCHOTTKY	GENERAL PURPOSE
40	-	-	-	-	-
60	CMKBR-6F	CMFBR-6F	-	-	-
100	-	-	CBRHD-01	CBRHDSH1-100	-
200	-	-	CBRHD-02	-	CBR1-D020S
400	-	-	CBRHD-04	-	CBR1-D040S
600	-	-	CBRHD-06	-	CBR1-D060S
1000	-	-	CBRHD-10*	-	CBR1-D100S
V _F MAX @ I _F	1.0V @ 20mA	1.0V @ 20mA	1.0V @ 0.4A	0.75V @ 1.0A	1.1V @ 1.0A
I _R MAX @ V _{RRM}	10nA @ 50V	10nA @ 50V	5.0µA	10µA	10µA
t _{rr} (60V)	1.0µs typ.	1.0µs typ.	-	-	-
t _{rr} (100 - 400V)	-	-	-	-	-
t _{rr} (600V)	-	-	-	-	-
t _{rr} (1000V)	-	-	-	-	-

I _O (AMPS)	1.0		1.2	2.0		5.0
@ T _A (°C)	40	40	25	25	25	25
I _{FSM} (AMPS)	50	50	20	30	50	110
CASE	 SMDIP		 HD DIP	 HD DIP		 SMDIP
V _{RRM} (VOLTS)	FAST RECOVERY	ULTRA FAST RECOVERY	LOW V _F SCHOTTKY	SCHOTTKY		SCHOTTKY
40	-	-	CBRHDSH1-40L	CBRHDSH2-40	-	CBRSDSH5-40
60	-	-	-	-	-	-
100	-	CBR1U-D010S	-	-	CBRHDSH2-100	-
200	CBR1F-D020S	CBR1U-D020S	-	-	-	-
400	CBR1F-D040S	-	-	-	-	-
600	CBR1F-D060S	-	-	-	-	-
1000	CBR1F-D100S*	-	-	-	-	-
V _F MAX @ I _F	1.3V @ 1.0A	1.05V @ 1.0A	0.44V @ 1.0A	0.5V @ 2.0A	0.84V @ 2.0A	0.55V @ 5.0A
I _R MAX @ V _{RRM}	5µA	5µA	50µA	50µA	4.0µA	70µA
t _{rr} (60V)	-	-	-	-	-	-
t _{rr} (100 - 400V)	200ns	50ns	-	-	-	-
t _{rr} (600V)	300ns	-	-	-	-	-
t _{rr} (1000V)	500ns	-	-	-	-	-

**Central's Full Range of
Surface Mount Packages**
(Actual Size)



TLP™ Tiny Leadless Package
Bottom View

SOD-882L SOT-883L

TLM™ Tiny Leadless Module Bottom View

TLM621 TLM621H TLM563 TLM563D TLM322

TLM532 TLM832 TLM832D TLM833



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