



180 Lafayette Road  
 North Hampton, NH 03862-2448  
 PH: 603-964-3165  
 FX: 603-964-3168  
 WWW.PDEELECTRONICS.COM

**Rectifier Assembly**  
 Single Phase, Standard, Fast and Ultra Fast Recovery  
 SBRxx, SBRxxF, SBRxxFF Series

**FEATURES**

- Low Forward Voltage Drop
- Low Reverse Leakage
- PCB Mounting
- Void-less Encapsulation
- High Forward and Reverse Surge Capability
- Glass-Passivated diodes used

**QUICK REFERENCE DATA**

- PIV: from 50V to 3000V
- Recovery times: to 500ns
- Forward Current: .36A- 1.5A
- Reverse Current: 2µA

<b>ELECTRICAL CHARACTERISTICS (at T<sub>A</sub> = 25°C unless noted)</b>								<b>MAX RATINGS</b>	
Type	PIV	Average Rectified Current		Reverse Current		Maximum Reverse Recovery Time	Forward Voltage	Repetitive Surge Current	1 Cycle Surge Current
		I <sub>F(AV)</sub>		I <sub>R</sub>		T <sub>RR</sub>	V <sub>F@I<sub>F</sub></sub>	I <sub>FRM</sub>	I <sub>FSM</sub>
		T <sub>A</sub> =55°C	T <sub>A</sub> =100°C	T <sub>A</sub> =25°C	T <sub>A</sub> =100°C	*		T <sub>A</sub> =25°C	T <sub>A</sub> =25°C
	Volt	Amps	Amps	µA	µA	nS	Volt @ Amp	Amps	Amps
<b>Standard Recovery</b>									
SBR05	50	1.5	1.0	2	50	2000	1.1 @1.0	10	30
SBR1	100	1.5	1.0	2	50	2000	1.1 @1.0	10	30
SBR2	200	1.5	1.0	2	50	2000	1.1 @1.0	10	30
SBR4	400	1.5	1.0	2	50	2000	1.1 @1.0	10	30
SBR6	600	1.5	1.0	2	50	2000	1.1 @1.0	10	30
SBR8	800	1.5	1.0	2	50	2000	1.1 @1.0	10	30
SBR10	1000	1.5	1.0	2	50	2000	1.1 @1.0	10	50
SBR15	1500	0.36	0.24	2	50	2500	5.0 @0.25	2.5	14
SBR20	2000	0.36	0.24	2	50	2500	5.0 @0.25	2.5	14
SBR25	2500	0.36	0.24	2	50	2500	5.0 @0.25	2.5	14
SBR30	3000	0.36	0.24	2	50	2500	5.0 @0.25	2.5	14
<b>Fast Recovery</b>									
SBR05F	50	1.0	0.65	2	50	150	1.2 @1.0	10	25
SBR1F	100	1.0	0.65	2	50	150	1.2 @1.0	10	25
SBR2F	200	1.0	0.65	2	50	150	1.2 @1.0	10	25
SBR4F	400	1.0	0.65	2	50	150	1.2 @1.0	10	25
SBR6F	600	1.0	0.65	2	50	250	1.2 @1.0	10	25
SBR8F	800	1.0	0.65	2	50	300	1.5 @1.0	10	25
SBR10F	1000	1.0	0.65	2	50	500	1.5 @1.0	10	25
SBR25F	2500	0.36	0.23	2	50	300	5.0 @0.1	2.5	10
<b>Ultra Fast Recovery</b>									
SBR5FF	50	1.0	0.30	2	100	30	1.2 @1.5	14	35
SBR10FF	150	1.0	0.30	2	100	30	1.2 @1.5	14	35
SBR15FF	150	1.0	0.30	2	100	30	1.2 @1.5	14	35

\* I<sub>F</sub>= .5A, I<sub>R</sub>=1A, I<sub>rec</sub>=.25A, measured on discretes prior to assembly

Specifications subject to change without notice to ensure a better product

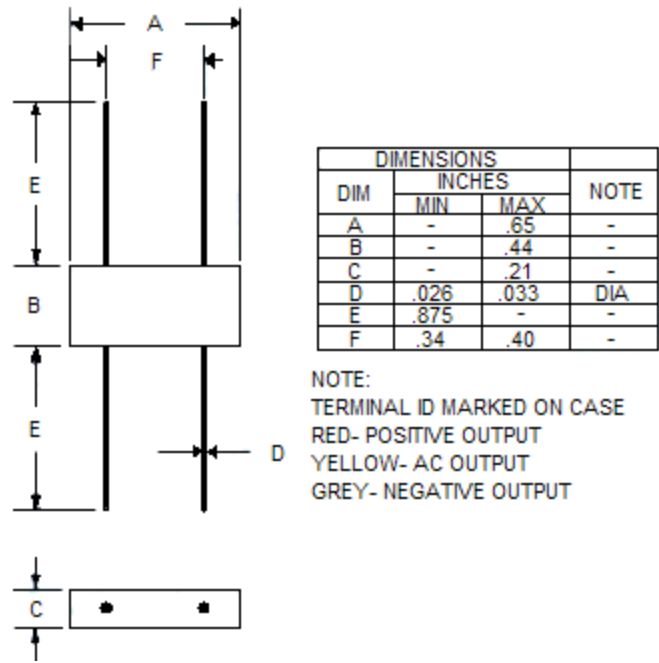
**PD&E Electronics** 180 Lafayette Rd. North Hampton, NH 03862  
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**MECHANICAL CHARACTERISTICS**



**THERMAL CHARACTERISTICS**

Operating and Storage Temperature.....-55°C TO +150°C