



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

Full Wave Bridge Assembly

High Current, 3 Phase
 SC3BJxxxx

FEATURES

- Low Thermal Impedance
- High Surge Rating
- High Current Rating
- Glass Passivated Diodes
- Isolated for Direct Heatsink Mounting
- Small Case Size

QUICK REFERENCE DATA

- $V_R = 50V-600V$
- $T_{rr} = 30nS-2\mu S$
- $I_{FSM} = 35A-50A$

ABSOLUTE MAXIMUM RATINGS

Device	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)} @ T_{MB}$						1 Cycle Surge I_{FSM} $T_p = 8.3mS$
		Amps ($I_F @ T_{CASE}$)			Amps ($I_F @ T_{AMB}$)			Amps
	Volts	@55°C	@100°C	@125°C	@25°C	@55°C	@100°C	$T_c @ 25°C$
SC3BJ05	50	5.0	3.0	2.0	2.0	1.5	1.0	50
SC3BJ1	100	5.0	3.0	2.0	2.0	1.5	1.0	50
SC3BJ2	200	5.0	3.0	2.0	2.0	1.5	1.0	50
SC3BJ4	400	5.0	3.0	2.0	2.0	1.5	1.0	50
SC3BJ6	600	5.0	3.0	2.0	2.0	1.5	1.0	50
SC3BJ05F	50	5.0	3.5	2.5	1.5	1.0	0.7	25
SC3BJ1F	100	5.0	3.5	2.5	1.5	1.0	0.7	25
SC3BJ2F	200	5.0	3.5	2.5	1.5	1.0	0.7	25
SC3BJ4F	400	5.0	3.5	2.5	1.5	1.0	0.7	25
SC3BJ6F	600	5.0	3.5	2.5	1.5	1.0	0.7	25
SC3BJ05FF	50	5.0	3.1	1.8	1.5	1.1	0.7	35
SC3BJ10FF	100	5.0	3.1	1.8	1.5	1.1	0.7	35
SC3BJ15FF	150	5.0	3.1	1.8	1.5	1.1	0.7	35

THERMAL CHARACTERISTICS

Operating and Storage Temperature.....	-55°C to +150°C
Maximum Thermal Impedance (typical).....	6.0°C/W Junction to Case



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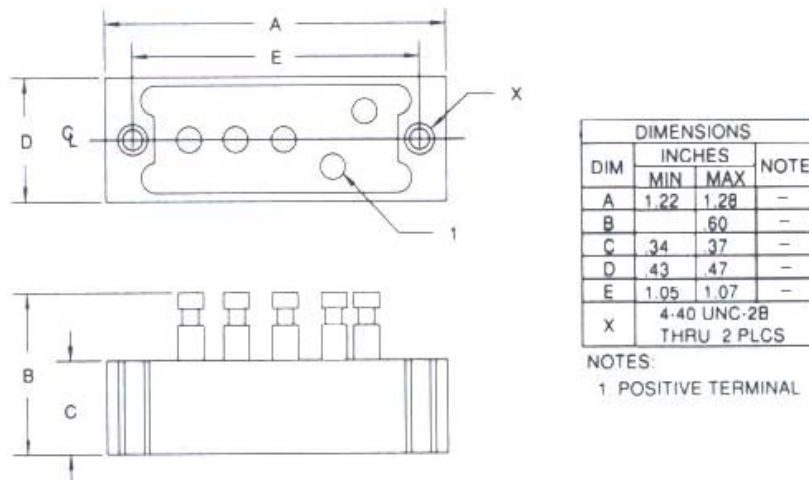
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ELECTRICAL CHARACTERISTICS

Device	Maximum Leakage Current Per leg $I_R @ V_{RWM}$		Maximum Forward Voltage Per Leg $V_F @ I_F$		Maximum Reverse Recovery T_{RR}^*
	$T_C=25^\circ C$	$T_C=100^\circ C$	$T_C=25^\circ C$		$T_A=25^\circ C$
	μA	μA	Volts	Amps	nS
SC3BJ05	3	75	1.10	1.0	2000
SC3BJ1	3	75	1.10	1.0	2000
SC3BJ2	3	75	1.10	1.0	2000
SC3BJ4	3	75	1.10	1.0	2000
SC3BJ6	3	75	1.10	1.0	2000
SC3BJ05F	3	75	1.20	1.0	150
SC3BJ1F	3	75	1.20	1.0	150
SC3BJ2F	3	75	1.20	1.0	150
SC3BJ4F	3	75	1.20	1.0	150
SC3BJ6F	3	75	1.20	1.0	250
SC3BJ05FF	3	150	1.20	1.5	30
SC3BJ10FF	3	150	1.20	1.5	30
SC3BJ15FF	3	150	1.20	1.5	30

* Measured on discretes prior to assembly in reverse recovery circuit switching from 0.5A forward to 1.0A reverse current recovering to 0.25A reverse current.

MECHANICAL



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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