

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SUPERFAST RECOVERY, LOW CURRENT 3-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES

- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance
- Very fast reverse recovery time

QUICK REFERENCE DATA

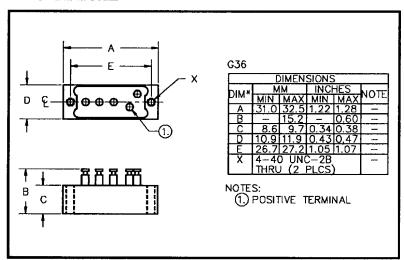
- $V_R = 50V 150V$
- $I_F = 5.0A$
- $V_F = 1.2V$
- $t_{rr} = 30 nS$

ABSOLUTE MAXIMUM RATINGS

| Device Type | Working Reverse Voltage VRWM | Average Rectified Current I _{F(AV)} | | | | | | 1 Cycle Surge Current | |
|----------------|---------------------------------------|--|---------|---------|-----------------------|---------------|---------|---|---------|
| | | @ case temperature | | | @ ambient temperature | | | I _{FSM} @ t _p = 8.3mS | |
| | | @ 55°C | @ 100°C | @ 125°C | @ 25°C | @ 55°C | @ 100°C | @ 25°C | @ 100°C |
| | Volts | Amps | Amps | Amps | Amps | Amps | Amps | Amps | Amps |
| SC3BJ05FF | 50 | | | | | | | | |
| SC3BJ10FF | 100 | 5.0 | 3.1 | 1.8 | 1.5 | 1.1 | 0.7 | 35 | 24 |
| SC3BJ15FF | 150 | | | | | | | | |

 $R_{\theta JC} = 6.0^{\circ} C/W$

MECHANICAL



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ELECTRICAL CHARACTERISTICS

| Device | Leakage | n Reverse Current V _{RWM} | Maximum Forward Voltage / leg V _F @ 1.5A | Maximum Reverse Recovery Time | Maximum operating & storage temp range. | |
|-----------|---------------|--|--|--|---|--|
| Type | @ 25°C | @ 100°C | @ 25°C | t _{rr} @ 25°C | Top TstG | |
| | μΑ | μA | Volts | nS | °C | |
| SC3BJ05FF | | | | | - 55 | |
| SC3BJ10FF | 3.0 | 150 | 1.2 | 30 | to | |
| SC3BJ15FF | | | | | +150 | |

Measured on discrete devices prior to assembly

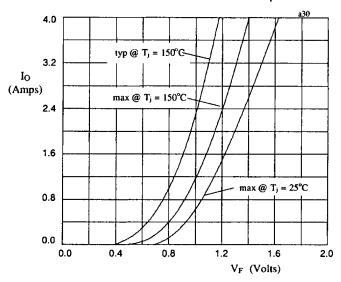


Fig 1. Forward voltage drop against output current per leg

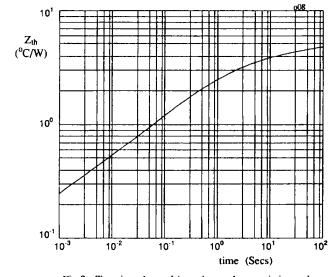
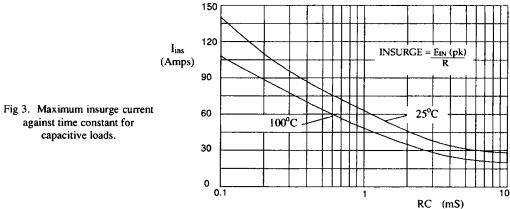


Fig 2. Transient thermal impedance characteristic per leg



against time constant for capacitive loads.