

Lagertyp B80C5000/3000



FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-0
- High surge current capability
- Ideal for printed circuit board
- Typical I_R less than $1 \mu A$
- Built-in printed board stand offs
- High temperature soldering guaranteed: $250^\circ C$ for 5 seconds

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique

Terminals: Leads solderable per MIL-STD-202, Method 208

Mounting position: Any

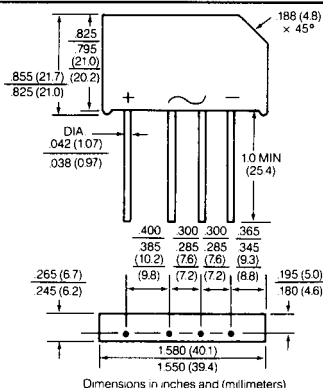
Weight: .92 ounce, 25.3 grams

VOLTAGE RANGE

65 to 600 Volts

CURRENT

5.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25^\circ C$ ambient temperature unless otherwise specified, resistive or inductive load at 50 Hz or 60 Hz.

	B40	B80	B125	B250	B380	UNITS
Maximum Recurrent Peak Reverse Voltage	65	125	200	400	600	V_{RM}
Maximum RMS Input Voltage R + C-Load	40	80	125	250	380	V_{RMS}
Maximum DC Blocking Voltage ¹⁾	65	125	200	400	600	V_{DC}
Maximum Repetitive Peak Reverse Voltage ¹⁾	100	190	300	600	900	V_{RRM}
Maximum Average Forward Output Current I_{FAVM} natural cooling, $T_A = 45^\circ C$						A_{AV}
C-Load			3.3			
R + L-Load on chassis = $31 in^2$, $200 cm^2$; $T_A = 45^\circ C$			4.0			
C-Load			5.0			
R + L-Load			6.0			
Maximum Repetitive Peak Forward Surge Current I_{FRM}			30			Apk
Peak Surge Forward Current single sine-wave on rated load (JEDEC Method at)				250		Apk
$T_J = 25^\circ C$				200		
$T_J = 150^\circ C$						
Pt Rating for Fusing ($t > 8.3 ms$)			312			$A \cdot s$
$T_J = 25^\circ C$			200			$A \cdot s$
$T_J = 150^\circ C$						
Minimum Series Resistance at V_{RMS}	0.15	0.3	0.6	1.2	1.8	Ohm
Maximum Reservoir Capacitor	10000	5000	5000	2500	1000	μF
Maximum Reverse Current at rated Repetitive Peak Voltage			10			μA
$T_J = 25^\circ C$			6.0			mA
$T_J = 150^\circ C$						
Maximum Instantaneous Forward Voltage Drop per element at 5.0A			1.1			Vpk
Operating and Storage Temperature Range T_J T_{STG}			-55 to +150			$^\circ C$

¹⁾ valid for each bridge element

RATINGS AND CHARACTERISTIC CURVES B...C5000/3300 SERIES

FIG. 1 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

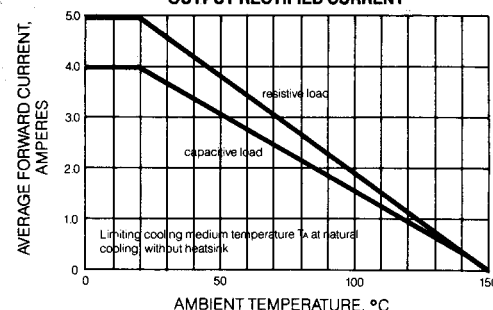


FIG. 2 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

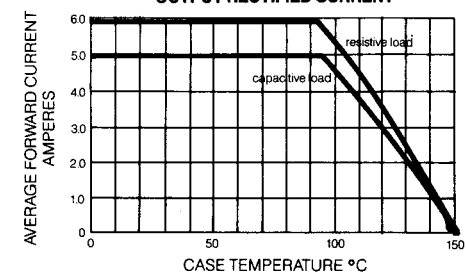


FIG. 3 — TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC PER BRIDGE ELEMENT

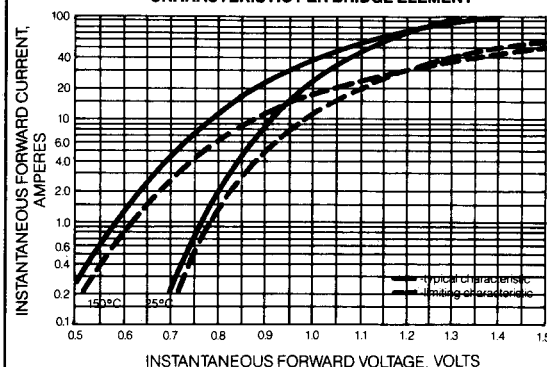


FIG. 4 — MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

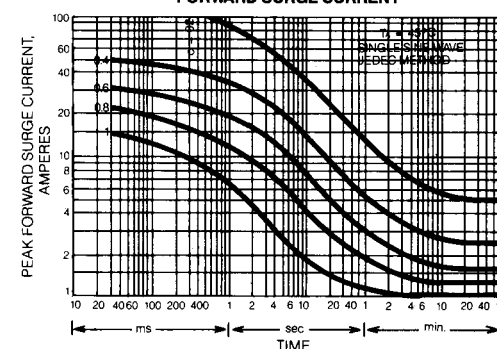


FIG. 5 — MAXIMUM TOTAL BRIDGE POWER DISSIPATION

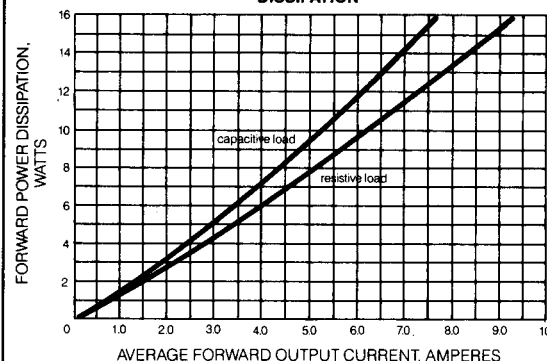


FIG. 6 — MEAN AVERAGE FORWARD CURRENT CASE TEMPERATURE

