



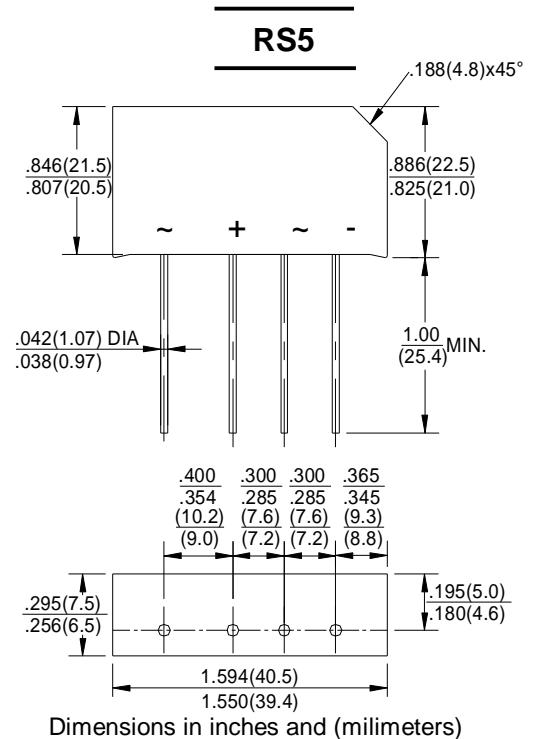
B40C7000/4000 thru B500C7000/4000

SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - 100 to 1000 Volts
 FORWARD CURRENT - 7.0 Amperes

FEATURES

- Plastic material used carries UL recognition 94V-0
- High surge current capability
- Ideal for printed circuit board
- Built-in printed board stand offs



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
 resistive or inductive load at 50Hz or 60Hz.

CHARACTERISTICS	SYMBOL	BC40C7000 /4000	BC80C7000 /4000	BC125C7000 /4000	BC250C7000 /4000	BC380C7000 /4000	BC500C7000 /4000	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	400	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current T _A =45°C (Note 1)	I _o	7.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250						A
Peak Reverse Current at @T _c =25°C	I _R	10.0						μA
Rated DC Blocking Voltage @T _c =125°C	I _R	6.0						mA
Forward Voltage per leg at 3.5A	V _F	1.0						V
Operating Temperature Range	T _J	-55 to +125						°C
Storage Temperature Range	T _{STG}	-55 to +150						°C

NOTES: 1. Mounted on 200mm² metal chassis

RATING AND CHARACTERISTIC CURVES
B40C7000/4000 thru B500C7000/4000



FIG.1-FORWARD CURRENT DERATING CURVE

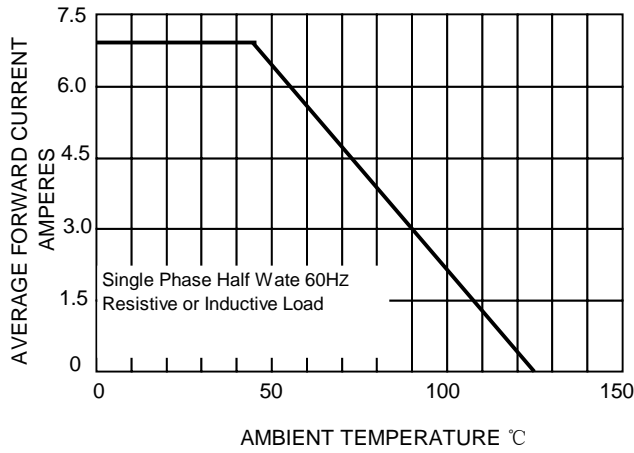


FIG.2-TYPICAL FORWARD CHARACTERISTICS, PER

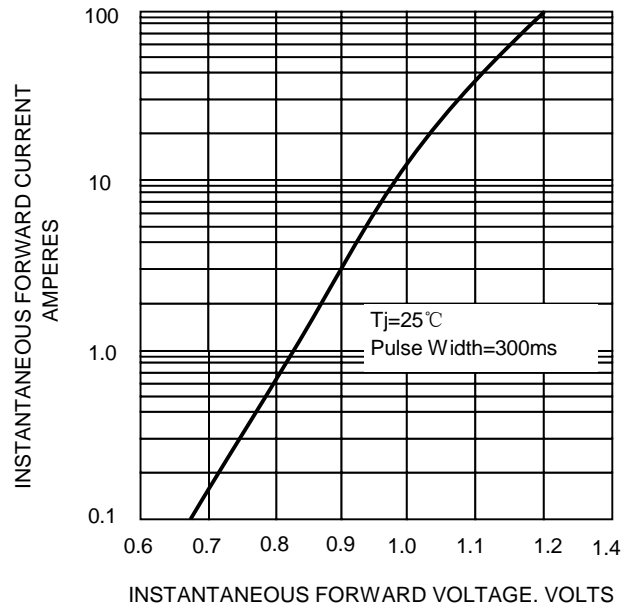


FIG.3-MAX NON-REPETITIVE PEAK FWD SURGE CURRENT

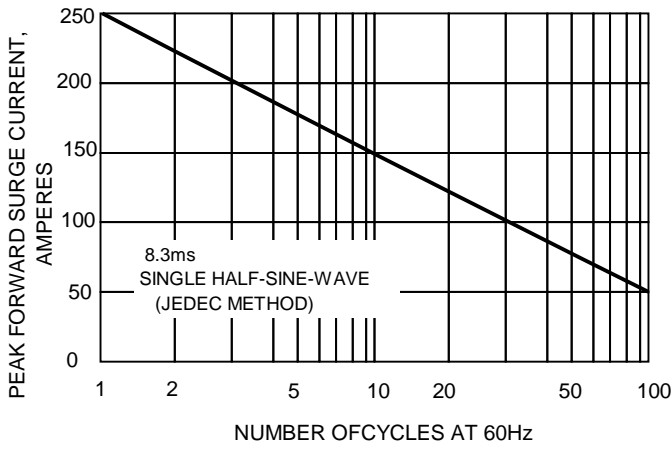


FIG.4-TYPICAL REVERSE CHARACTERISTICS

