



Ruttonsha International Rectifier Ltd.

SINGLE PHASE BRIDGE RECTIFIERS

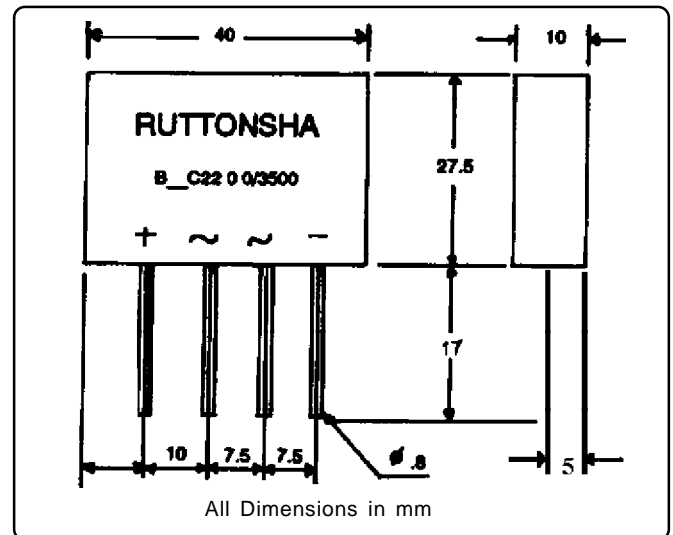
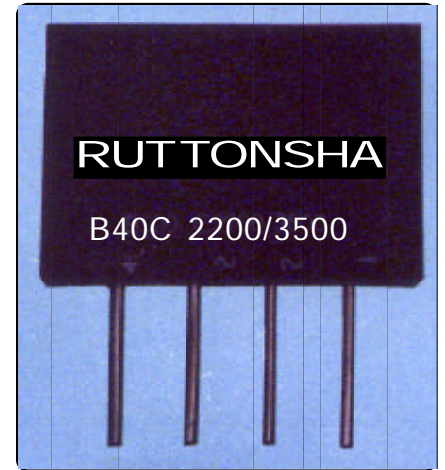
Type : B 40C 2200/3500 to B 500 C 2200/3500

FEATURES

- ❖ Suitable for printed circuit board mounting.
- ❖ Compact construction.
- ❖ High surge current capability.
- ❖ Rating for resistive / inductive = 3.5 A & capacitive 2.2 A.

ELECTRICAL RATINGS & CHARACTERISTICS

$I_{O(AV)}$	Maximum average output current $T_c = 40^\circ\text{C}$; resistive, inductive load (R) capacitive load (C)	3.5 A 2.2 A
I_{FSM}	Maximum peak one cycle, non-repetitive forward current; 10ms	120 A
I^2t	Maximum I^2t for fuse selection; 10ms, 8.3ms	72 A ² s
V_F	Maximum Average forward voltage drop per diode @ $I_{O(AV)}$ = rated current	1.2 V
I_{RM}	Typical peak reverse current per diode at rated V_{RRM} $T_j = 25^\circ\text{C}$ $T_j = 150^\circ\text{C}$	200 μA 500 μA



THERMAL & MECHANICAL DATA

T	Operating and storage temperature range	-50 to +150°C
f	Operating frequency range	40 to 2000 Hz
W	Approximate weight	22 gms.
θ_{j-a}	Thermal resistance junction to ambient	20°C/w

VOLTAGE & APPLICATION DATA

TYPE	NUMBER	B..C2200	40	80	160	250	350	500
V_{RRM}	Maximum repetitive peak reverse voltage	V	100	200	400	600	800	1000
V_{RSM}	Maximum non-repetitive peak reverse voltage	V	150	300	500	700	900	1100
V_{RMS}	Recommended AC supply voltage	V	40	80	160	240	320	480
I_{RM}	Maximum leakage current at V_{RRM} per leg at 25°C	mA	0.2	0.2	0.02	0.02	0.02	0.02
R	Surge limiting resistor 1W in series with the capacitor	Ω	3	3	6	9	12	15

HOLE STORAGE SUPERSSION CONDENSER IN SERIES WITH RESISTANCE AS INDICATED 0.01 μfd

SINGLE PHASE BRIDGE RECTIFIERS

Type : B 40C 2200/3500 to B 500 C 2200/3500

