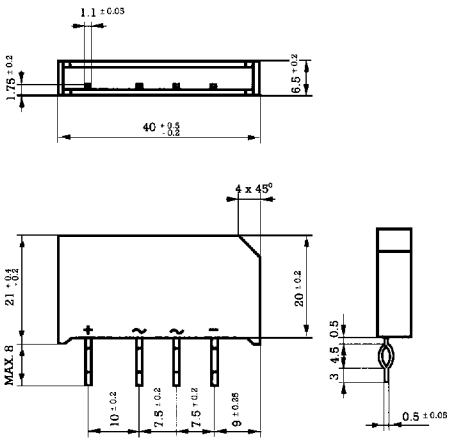
5 Amp. Silicon Bridge Rectifiers in Plastic Case

Dimensions in mm. Plastic Case



Voltage
100 to 600 V.

Current
5.0 A.

- In process of evaluation UL 1449
- Low Cost
- Case: Epoxy encapsulation
- Terminals: Radial in-line
- Ideal for P.C.B.

Lead and polarity identifications
High surge current capability

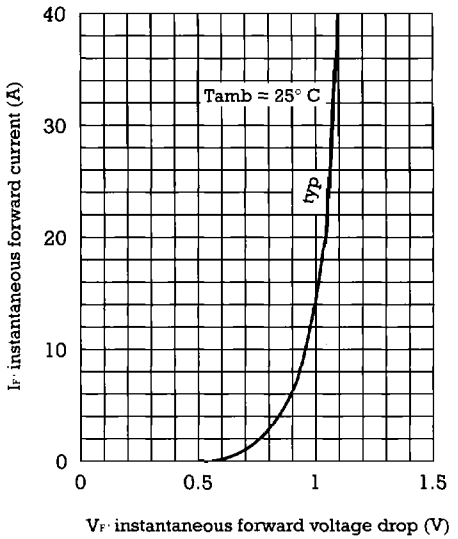
Maximum Ratings, according to IEC publication No. 134

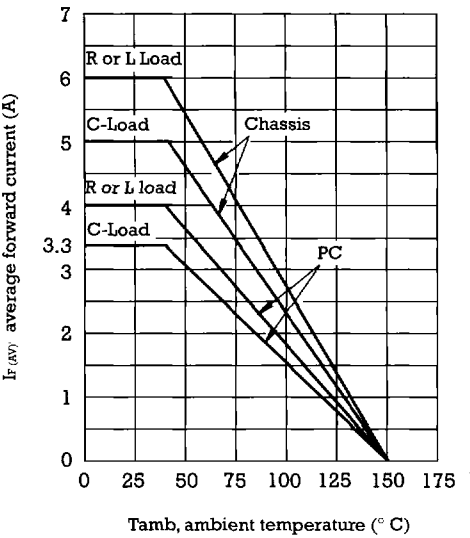
		B40 C5000 3300-400	B80 C5000 3300 - 400	B125 C5000 3300 - 400	B250 C5000 3300 - 400
V_{RWM}	Max. peak working voltage (V)	100	200	300	600
V_{RMS}	Recommended input voltage (V)	40	80	125	250
$I_{F(AV)}$	Forward current at Tamb = 45 °C - PC mounted R load	4.0 A			
	C load	3.3 A			
	- Chassis mounted R load	6.0 A			
	C load	5.0 A			
I_{FRM}	Recurrent peak forward current	30 A			
I_{FSM}	10 ms. peak forward surge current	400 A			
I^2t	I^2t value for fusing (t = 10 ms)	800 A^2S			
T_j	Max. operating temperature	+ 150 °C			
T_{stg}	Storage temperature range	– 40 to + 150 °C			

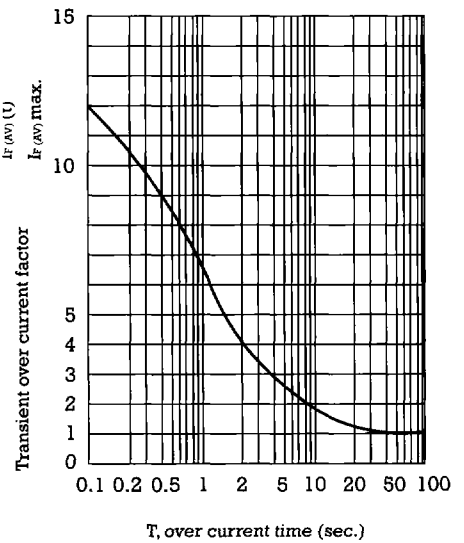
Electrical Characteristics at Tamb = 25 °C

V_F	Max. forward voltage drop per element at I_F = 5 A	1.1 V
I_R	Max. reverse current per element at V_{RRM}	20 µA

Characteristic Curves







OPERATION WITH CAPACITIVE LOAD

Limit values of R_S and C_L for adequate protection against switching transients.

Recommended input voltage V_{RMS}	Min.R_S Tol ± 10 % Ohms	Max. CL Tol + 50 % - 20 % µ F
40	0,5	10.000
80	1,0	5,000
125	1,5	2.500
250	3,0	1.200