

5 Amp. Silicon Bridge Rectifiers in Plastic Case

<p>Dimensions in mm.</p> <p>Plastic Case</p>	<p>Voltage 100 to 1.000 V.</p> <p>Current 5.0 A.</p>
	<ul style="list-style-type: none"> • In process of evaluation UL 1449 • Low Cost • Case: Epoxy encapsulation • Terminals: Radial in-line • Ideal for P.C.B. <p>Lead and polarity identifications High surge current capability</p>

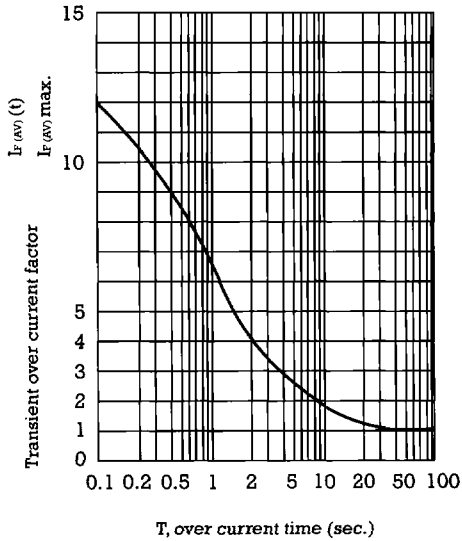
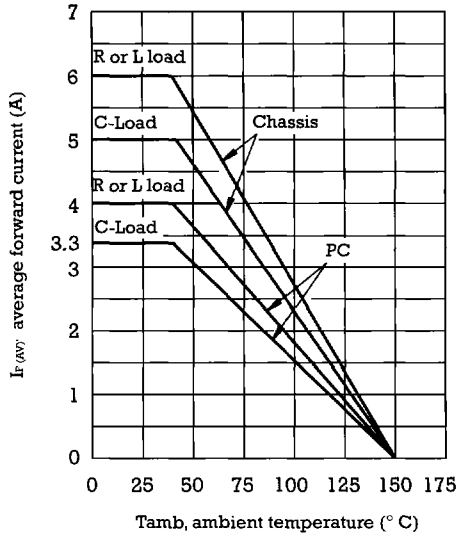
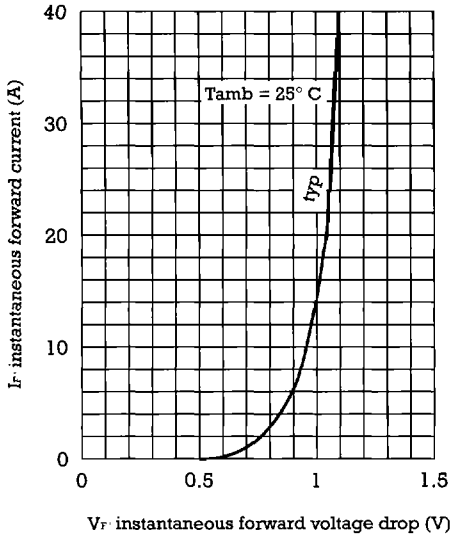
Maximum Ratings, according to IEC publication No. 134

		B40	B80	B125	B250	B380	B500
		C5000/3300	C5000/3300	C5000/3300	C8000/3300	C5000/3300	C5000/3300
V_{RWM}	Max. peak working voltage (V)	100	200	300	600	900	1000
V_{RMS}	Recommended input voltage (V)	40	80	125	250	380	500
$I_{\text{F(AV)}}$	Forward current at $T_{\text{amb}} = 45^\circ\text{C}$	- PC mounted R load C load		4.0 A 3.3 A		- Chassis mounted R load C load	
				6.0 A 5.0 A			
I_{FRM}	Recurrent peak forward current			30 A			
I_{FSM}	10 ms. peak forward surge current			250 A			
I^2t	I^2t value for fusing ($t = 10$ ms)			300 A ² S			
T_j	Max. operating temperature			+ 150 °C			
T_{stg}	Storage temperature range			- 40 to + 150 °C			

Electrical Characteristics at $T_{\text{amb}} = 25^\circ\text{C}$

V_{F}	Max. forward voltage drop per element at $I_{\text{F}} = 5$ A	1.1 V
I_{R}	Max. reverse current per element at V_{RRM}	20 μ A

Characteristic Curves



OPERATION WITH CAPACITIVE LOAD

Limit values of R_s and C : for adequate protection against switching transients.

Recommended input voltage V_{RMS}	Min. R_s Tol $\pm 10\%$ Ohms	Max. C_L + 50 % - 20 % μF
40	0,5	10.000
80	1,0	5,000
125	1,5	2.500
250	3,0	1.200
380	5,0	800
500	6,0	600

