



**MIKROELEKTRONIKAI
VÁLLALAT**

Enterprise for Micro-Electronics

**ALKATRÉSZ VÁLASZTÉK
Electronical Components**



RECTIFIERS

SILICON RECTIFIERS

Type	Outline	MAXIMUM RATINGS						TYPICAL CHARACTERISTICS ($T_j = 25^\circ\text{C}$)			Notes
		V_{RRM} V	V_{RSM} V	I_{FAV} A	I_{FRM} A	I_{FSM} A	T_j $^\circ\text{C}$	V_F max. V	at I_F A	I_R max. at V_{RRM} μA	
BA157	1	400		0.4	2	15	150	1.3	1	5	$t_{rr} = 0.3 \mu\text{s}$ $I_F = I_R = 10 \text{ mA}$ at $I_R = 1 \text{ mA}$
BA158	1	600		0.4	2	15	150	1.3	1	5	
BA159	1	1000		0.4	2	15	150	1.3	1	5	
BA3109T	3	6000	6500	0.3	—	10	150	7.5	0.3	10	for rectification of line flyback pulses
BY127	1	1250		1	10	40	150	1.5	5	10	
BY133	1	1300	1600	1	10	50	150	1.3	2	5	
BY134	1	600	800	1	10	50	150	1.3	2	5	
BY135	1	150	200	1	10	50	150	1.3	2	5	
BYX42/100T	2	100	120	10 ¹	40 ¹	80 ¹	155	1.1	10	60	
BYX42/200T	2	200	240	10 ¹	40 ¹	80 ¹	155	1.1	10	60	
BYX42/300T	2	300	360	10 ¹	40 ¹	80 ¹	155	1.1	10	60	
BYX42/400T	2	400	480	10 ¹	40 ¹	80 ¹	155	1.1	10	60	
1N4001	1	100	100	1 ²	10	50 ²	175	1.3	2	5	
1N4002	1	200	200	1 ²	10	50 ²	175	1.3	2	5	
1N4003	1	400	400	1 ²	10	50 ²	175	1.3	2	5	
1N4004	1	600	600	1 ²	10	50 ²	175	1.3	2	5	
1N4005	1	800	800	1 ²	10	50 ²	175	1.3	2	5	
1N4006	1	1000	1000	1 ²	10	50 ²	175	1.3	2	5	
1N4007 ³	1	1300	1300	1 ²	10	50 ²	175	1.3	2	5	

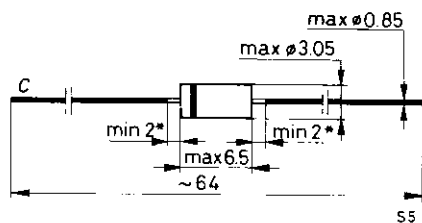


Fig. 1

* not tinned

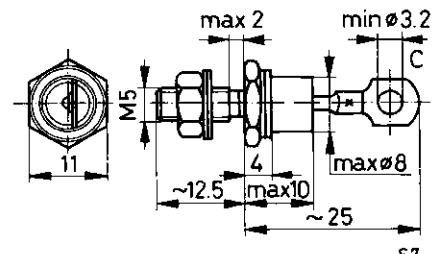


Fig. 2

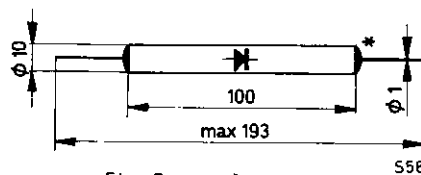


Fig. 3

* cathode red

¹ Applied in half-wave rectifier circuits in case $R_{thja} = 30 \text{ K/W}$ is not exceeded. Applied up to $T_{amb} \approx 85^\circ\text{C}$ in case the rectifier is mounted on 2 mm Al. heatsink of $12.5 \times 12.5 \text{ cm}^2$.

² $T_L \leq 75^\circ\text{C}$, $L = 10 \text{ mm}$.

³ $V_{RWM} = 1000 \text{ V}$.