

Silicon Rectifiers (nom. current 0,5 A and 1 A) in epoxy packages

Type		Maximum Ratings					Characteristics @ T _j =25°C				
Code JEDEC	Code ITT	Peak repetitive reverse current	Nom. load current, half-wave, resistive load		Repetitive surge current	Surge current for half cycle	Junction temperature	Forward voltage @ I _F = 1 A	Reverse current	Thermal resistance	
		V _{RRL} V	@ T _{amb} = -65 ... +75 °C	@ T _{amb} = 100 °C	@ θ < 40 ° f > 15 Hz	@ 50 Hz T _j =25°C	T _j °C	V _F V	I _R μA	V _R V	θ _{amb} °C/W
1N 2070	—	400	0,5 ¹	—	—	—	100	< 1,1	< 10	400	—
1 N 4001	—	50	1	0,75	10	50	150	< 1,1	< 5	50	< 95
1 N 4002	EM 501	100	1	0,75	10	50	150	< 1,1	< 5	100	< 95
1 N 4003	EM 502	200	1	0,75	10	50	150	< 1,1	< 5	200	< 95
1 N 4004	EM 504	400	1	0,75	10	50	150	< 1,1	< 5	400	< 95
1 N 4005	EM 506	600	1	0,75	10	50	150	< 1,1	< 5	600	< 95
1 N 4006	EM 508	800	1	0,75	10	50	150	< 1,1	< 5	800	< 95
1 N 4007	EM 510	1000	1	0,75	10	50	150	< 1,1	< 5	1000	< 95
—	EM 513	1300	1	0,75	10	50	150	< 1,1	< 5	1300	< 95

¹T_{amb}=25°C

Silicon Rectifiers (nominal current 1 ... 4A) in epoxy and stud-mounted packages

Type	Maximum Ratings					Characteristics @ T _j =25°C								
	Peak repetitive reverse voltage	Max. crest voltage	Nom. load current, half wave, resistive load, @ T _{amb} =50°C			Repetitive surge current	Surge current for half cycle	Junction temperature	Forward voltage @ I _F =2 A	Reverse current	Thermal resistance			
	V _{RRL} V	V _{RSL} V	without heat sink	with Al. heat sink 100 x 100 x 2 mm	with heat sink KL 15-5	with heat sink KL 5-5	with infinite heat sink	@ θ < 40° f > 15 Hz	@ 50 Hz T _j =25°C	T _j °C	V _F V	I _R μA	V _R V	θ _{amb} (θ _{case}) °C/W
BYY 31	150	200	1	—	—	—	—	10	50	150	< 1,3	< 5	150	< 95
BYY 32	300	400	1	—	—	—	—	10	50	150	< 1,3	< 5	300	< 95
BYY 33	450	600	1	—	—	—	—	10	50	150	< 1,3	< 5	450	< 95
BYY 34	600	800	1	—	—	—	—	10	50	150	< 1,3	< 5	600	< 95
BYY 35	750	1000	1	—	—	—	—	10	50	150	< 1,3	< 5	750	< 95
BYY 36	900	1200	1	—	—	—	—	10	50	150	< 1,3	< 5	900	< 95
BYY 37	1050	1400	1	—	—	—	—	10	50	150	< 1,3	< 5	1050	< 95
BYY 88	150	200	1	2,8	2,5	4	4	10	50	150	< 1,3	< 5	150	< 5
BYY 89	300	400	1	2,8	2,5	4	4	10	50	150	< 1,3	< 5	300	< 5
BYY 90	600	800	1	2,8	2,5	4	4	10	50	150	< 1,3	< 5	600	< 5
BYY 91	1200	1400	1	2,8	2,5	4	4	10	50	150	< 1,3	< 5	1200	< 5
BYY 92	1600	2000	1	2,8	2,5	4	4	10	50	150	< 1,3	< 5	1600	< 5
BY 134	600	800	1	—	—	—	—	10	50	150	< 1,3	< 5	650	< 95
BY 135	150	200	1	—	—	—	—	10	50	150	< 1,3	< 5	150	< 95

Silicon Booster Diodes in epoxy packages

The BY 147 is a suitable replacement for type PY 88 tubes in TV sets having type PL 500 or PL 504 tubes in the line output stage.

Type	Maximum Ratings				Characteristics at T _j =25°C				
	Nom. reverse voltage	Peak reverse voltage	Nominal current @ T _{amb} =45°C	Max. current at turn-off	Repetitive peak forward current	Surge current t < 10 ms	Forward voltage @ I _F =250 mA	Reverse current @ V _R =7 kV	
	V _R kV	V _{RM} kV	I _n mA	I _{off} mA	I _{FRM} A	I _{FSL} A	V _F V	I _R μA	
BY 147	7	7,5	250	100	3	10	9	< 1	
BY 154	7	7,5	500	—	3	10	9	< 1	