

Silicon Rectifiers—1 Amp

Miniature plastic encapsulation
Maximum ratings at 25°C

REFERENCE TABLE

Code	Peak repetitive reverse current V_{RRL} V	Nom. load current, half-wave, resistive load @ $T_{amb} = -55$ to $+75^\circ\text{C}$ I_{FAV} A	Nom. load current, half-wave, resistive load @ $T_{amb} = 100^\circ\text{C}$ I_{FAV} A	Junction temperature T_j °C	Forward voltage @ $I_F = 1$ A V_F V	Reverse current I_R μ A @ V_R V	Thermal resistance θ_{amb} °C/W	Stock No.	Outline Drawing No.
1N4001	50	1	0.75	150	<1.1	<5	50	18663D	12
1N4002	100	1	0.75	150	<1.1	<5	100	18664B	
1N4003	200	1	0.75	150	<1.1	<5	200	13216R	
1N4004	400	1	0.75	150	<1.1	<5	400	13217G	
1N4005	600	1	0.75	150	<1.1	<5	600	13218E	
1N4006	800	1	0.75	150	<1.1	<5	800	18665X	
1N4007	1000	1	0.75	150	<1.1	<5	1000	13173X	

Repetitive surge current, I_{FRM} (at $\theta < 40^\circ$, $f > 15$ Hz) = 10ASurge current for half-cycle, I_{FSL} (at 50Hz, $T_j = 25^\circ\text{C}$) = 50A

Silicon Avalanche Rectifiers—1 to 10 Amps

Metal case construction
Maximum ratings at 25°C.

REFERENCE TABLE

Code	Crest working reverse voltage V_R (V)	Peak repetitive reverse voltage V_{RRL} (V)	Nom. load current, half wave, resistive load @ $T_{amb} = 45^\circ\text{C}$ I_{FAV} (A)	Peak repetitive forward current I_{FRM} (A)	Max. forward surge current @ $t < 10$ ms I_{FSL} (A)	Max. Reverse current @ V_R I_R (μ A)	Min. Avalanche Voltage V_{BR} (V)	Stock No.	Outline Drawing No.
RAS310AF	1000	1200	1	5	45	10	1250	1356E	40
RAS508AF	800	960	5 ¹	25	100	20	1000	1358A	35
RAS508CF	800	960	10 ²	50	200	50	1000	1198A	35

¹In aluminium heat sink 76 mm x 76 mm x 1.6 mm²In aluminium heat sink 100 mm x 100 mm x 1.5 mm