

# R20AW THRU R20MW

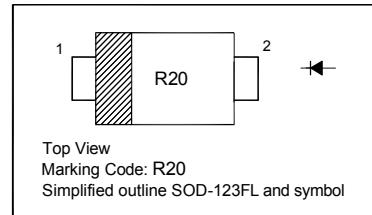
## Surface Mount General Purpose Silicon Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



## Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	R20AW	R20BW	R20DW	R20GW	R20JW	R20KW	R20MW	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T <sub>a</sub> = 65°C	I <sub>F(AV)</sub>								A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>								A
Maximum Instantaneous Forward Voltage at 2 A	V <sub>F</sub>								V
Maximum DC Reverse Current T <sub>a</sub> = 25°C at Rated DC Blocking Voltage T <sub>a</sub> = 125°C	I <sub>R</sub>								µA
Typical Junction Capacitance <sup>1)</sup>	C <sub>j</sub>								pF
Typical Thermal Resistance <sup>2)</sup>	R <sub>θJA</sub>								°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>						- 55 to + 150		°C

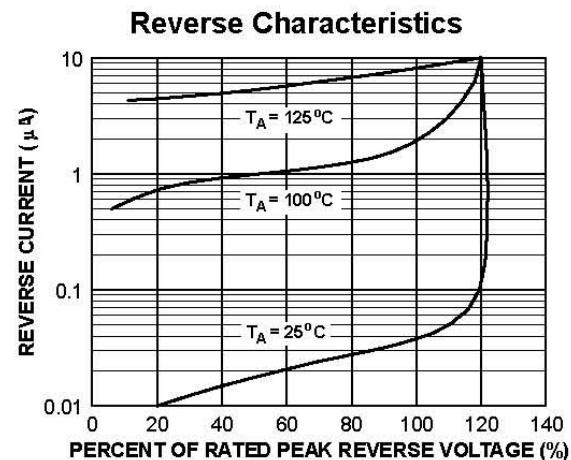
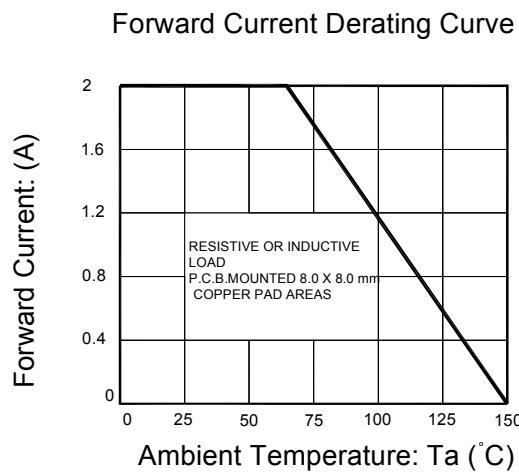
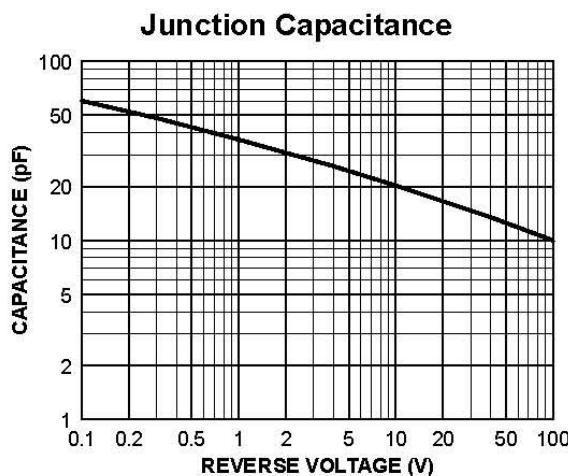
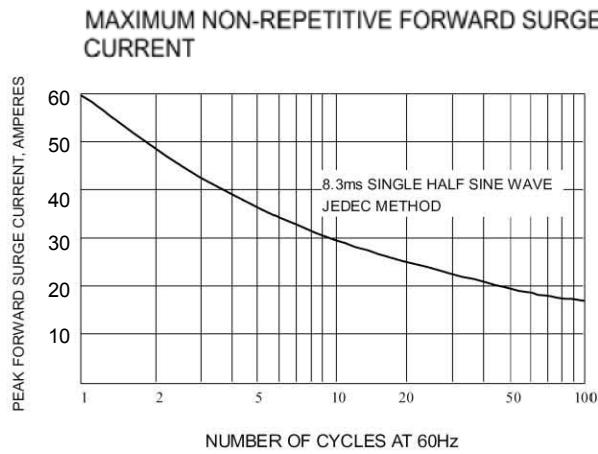
<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C.

<sup>2)</sup> Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted

**TOP DYNAMIC**



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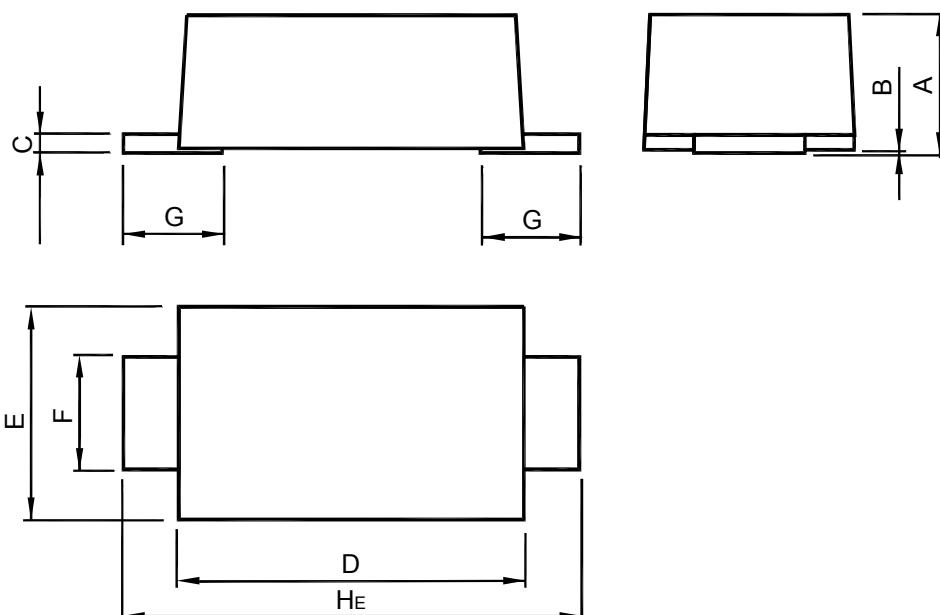


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## PACKAGE OUTLINE

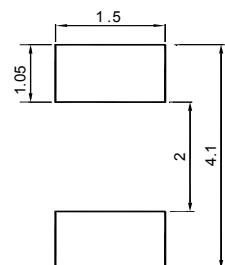
Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	A	B	C	D	E	F	G	H <sub>E</sub>
mm	1.08 0.88	0.1 0	0.2 0.1	2.9 2.6	1.9 1.7	1.1 0.8	0.9 0.7	3.9 3.5

## Recommended Soldering Footprint



## Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

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