

R20AH THRU R20MH

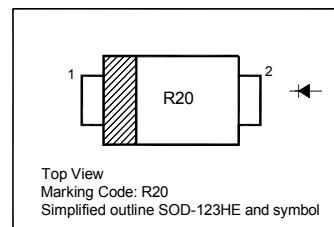
Surface Mount General Purpose Silicon Rectifiers

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	R20AH	R20BH	R20DH	R20GH	R20JH	R20KH	R20MH	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _a = 65°C	I _{F(AV)}				2				A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}				60				A
Maximum Instantaneous Forward Voltage at 2 A	V _F				1.15				V
Maximum DC Reverse Current T _a = 25°C at Rated DC Blocking Voltage T _a = 125°C	I _R			5		100			μA
Typical Junction Capacitance ¹⁾	C _j			30					pF
Typical Thermal Resistance ²⁾	R _{θJA}			180					°C/W
Operating and Storage Temperature Range	T _j , T _{stg}			- 55 to + 150					°C

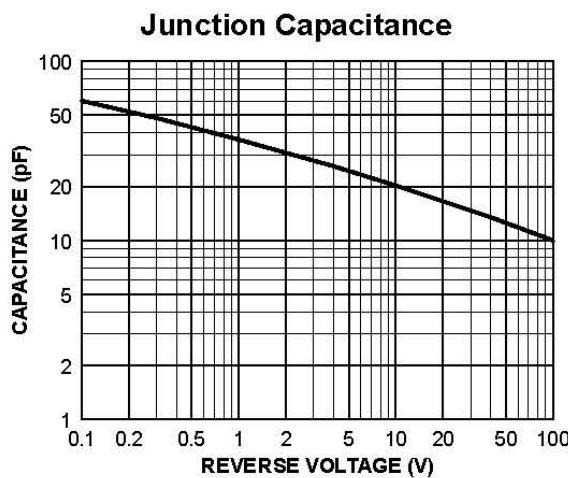
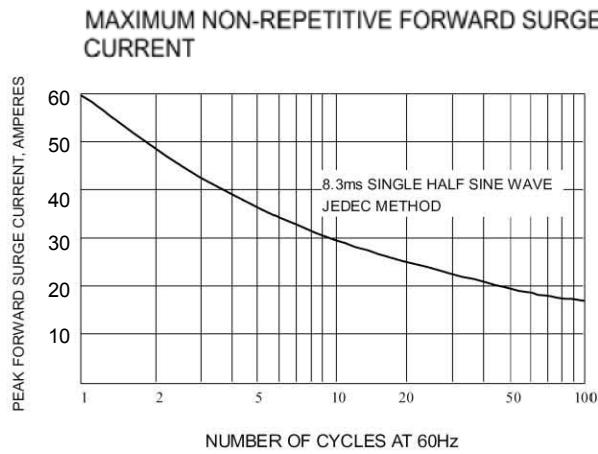
¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

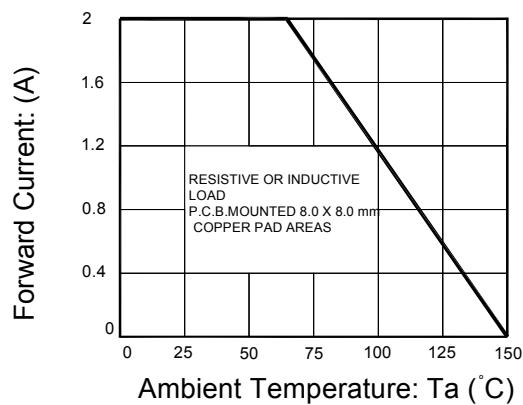
TOP DYNAMIC



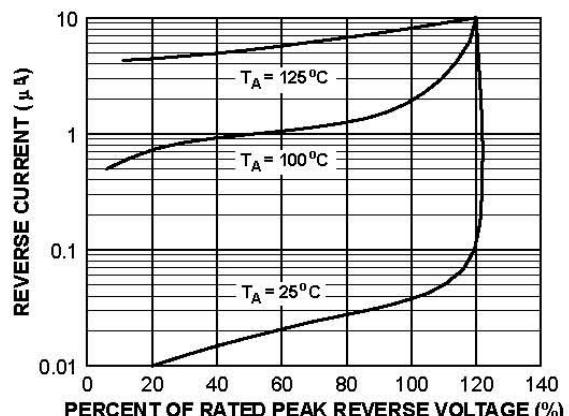
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Forward Current Derating Curve



Reverse Characteristics



TOP DYNAMIC



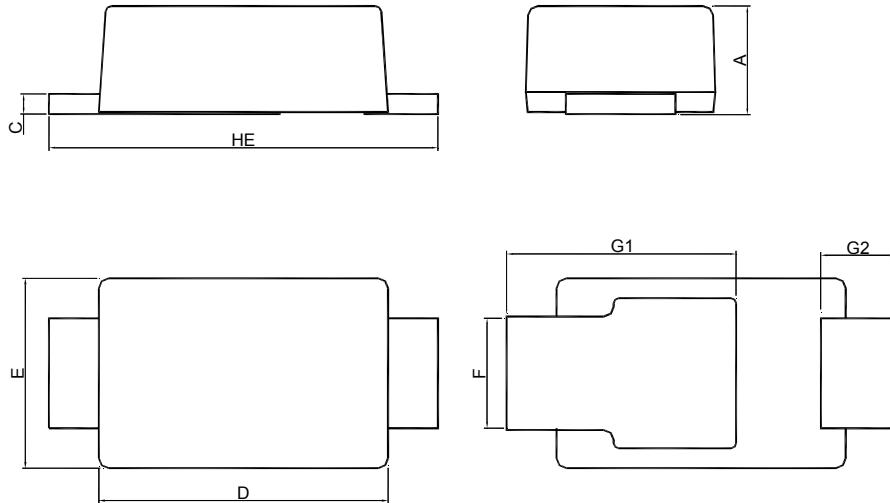
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PACKAGE OUTLINE

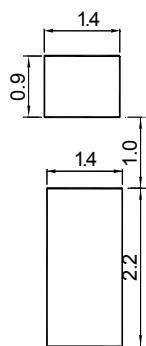
Plastic surface mounted package; 2 leads

SOD-123HE



UNIT	A	C	D	E	F	G1	G2	H _E
mm	1.08 0.88	0.2 0.1	2.9 2.6	1.9 1.7	1.1 0.8	2.3 1.9	0.75 0.55	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-123HE	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

TOP DYNAMIC



ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC 080000
Certificate No. 121505007 Certificate No. 50114012 Certificate No. 0513150008 Certificate No. 123456001402

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