

FF20MH-HAF

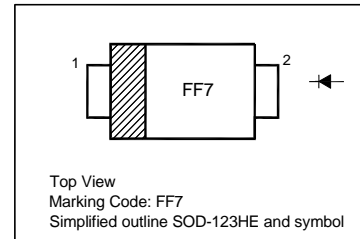
Surface Mount Fast Recovery Rectifiers

Reverse Voltage - 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	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum Average Forward Rectified Current at $T_a = 65^\circ\text{C}$	$I_{F(AV)}$	2	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50	A
Maximum Instantaneous Forward Voltage at 2 A	V_F	1.3	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$	I_R	5 50	μA
Maximum Reverse Recovery Time ¹⁾	t_{rr}	160	ns
Typical Junction Capacitance ²⁾	C_j	15	pF
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150	$^\circ\text{C}$

¹⁾ Measured with $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $I_{rr} = 0.25\text{ A}$

²⁾ Measured at 1MHz and applied reverse voltage of 4V D.C

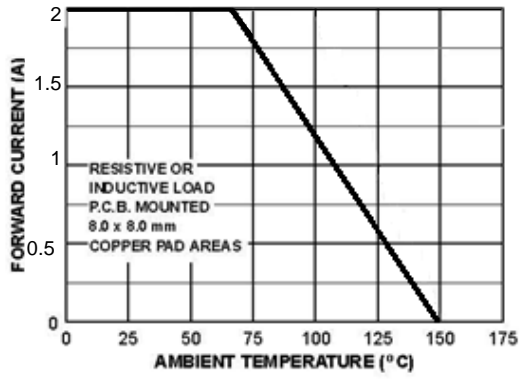
TOP DYNAMIC



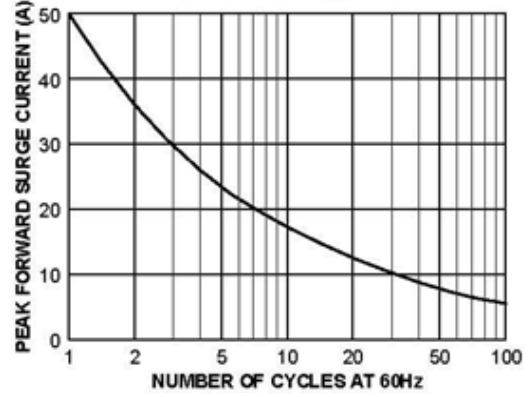
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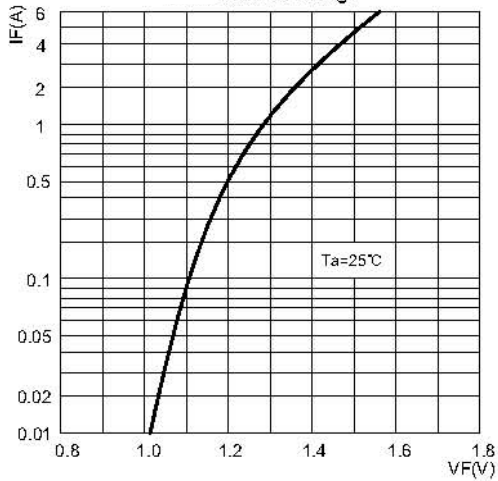
Forward Current Derating Curve



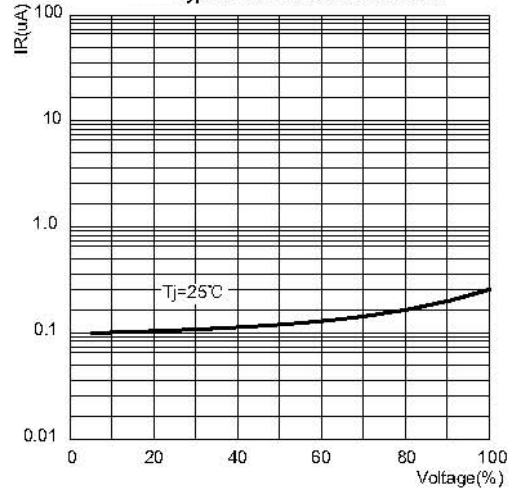
Non-Repetitive Surge Current



Forward Voltage



Typical Reverse Characteristics



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ISO14001 : 2004 Certificate No. 121516007
 ISO 9001 : 2008 Certificate No. 5014012
 OHSAS 18001 : 2007 Certificate No. 05131508006
 IECQ QC 080000 Certificate No. ECQW00014002

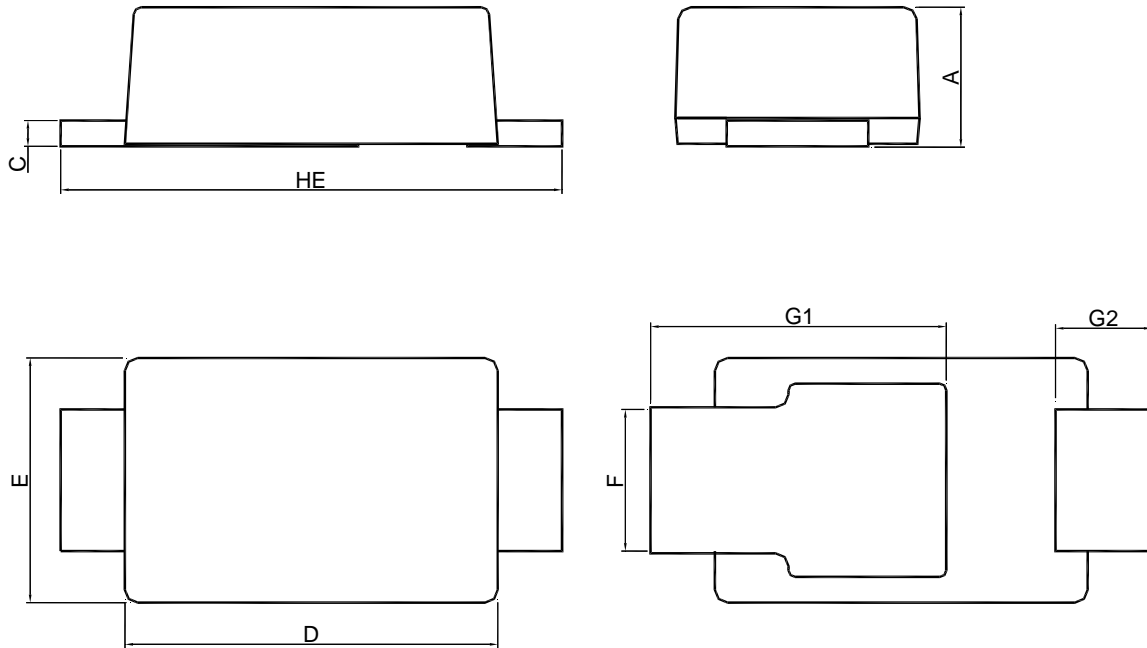
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PACKAGE OUTLINE

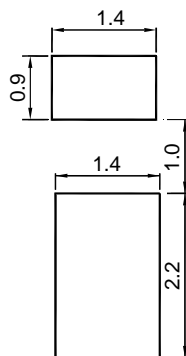
Plastic surface mounted package; 2 leads

SOD-123HE



UNIT	A	C	D	E	F	G1	G2	H _E
mm	1.08	0.2	2.9	1.9	1.1	2.3	0.75	3.9
	0.88	0.1	2.6	1.7	0.8	1.9	0.55	3.5

RECOMMENDED SOLDERING FOOTPRINT



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