

PM1-PM7

Silicon Rectifiers

Feature

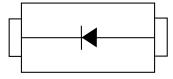
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Juntion
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Characteristics

- Case: SMAF
- > Terminals: Solderable per MIL-STD-750, Method 2026
- > Approx. Weight: 27mg 0.00086oz

Absolute maximum rating@25°C

Parameter	Symb ol	PM1	PM2	PM3	PM4	PM5	PM6	PM7	Unit s
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 Ta = 65 °C	I _{F(AV)}	1						A	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30						A	
Maximum Instantaneous Forward Voltage at 1A	VF	1.1						V	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	5 50						μΑ	
Typical Junction Capacitance ¹⁾	Cj	4						pF	
Typical Thermal Resistance ²	R _{0JA}	180					°C /W		
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150					°C		



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r_=150°

T,=125°C

T-=100

T,=75°C

T,=50°C

T_=25°C

600

800

400

Instaneous Reverse Voltage (V)

Fig.2 Typical Instaneous Reverse Characteristics

T_=25°C

Reverse Voltage(V)

Fig.4 Typical Junction Capacitance

10

100

Typical Characteristics

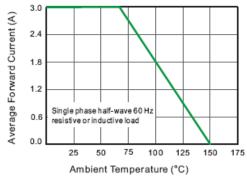
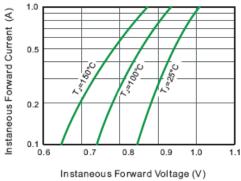
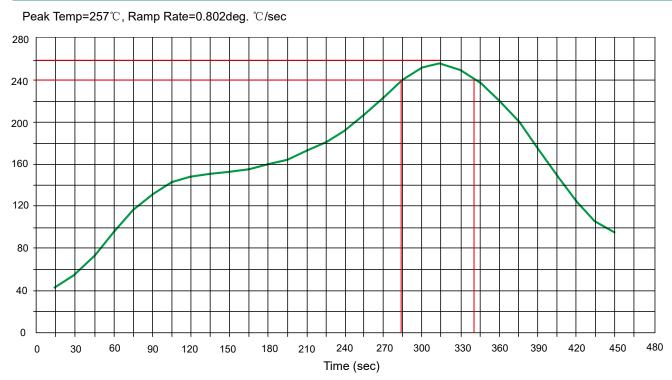


Fig.1 Forward Current Derating Curve





Solder Reflow Recommendation



100

10

1.0

0.1

0.01

100

10

1

0.1

Junction Capacitance (pF)

0

200

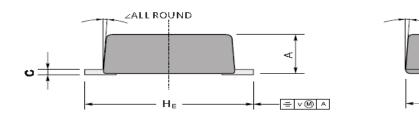
1.0

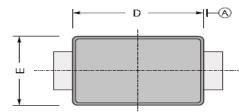
Instaneous Reverse Current (µA)

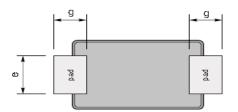
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Product dimension (SMAF)





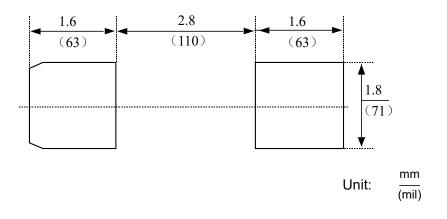


∠ALL ROUND

Е

UNIT		А	С	D	Е	е	g	Η _E	2
mm -	max	1.3	0.23	3.7	2.7	1.6	1.3	4.9	
	min	1.1	0.18	3.3	2.4	1.3	1.0	4.4	
mil	max	51	9.1	146	106	63	51	193	
	min	43	7.1	130	94	51	39	173	

The recommended mounting pad size



Ordering information

Device	Package	Reel	Shipping	
PM1-PM7	SMAF (Pb-Free)	7"	3000/ Tape & Reel	

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