

PES1AF-PES1JF

Silicon Rectifiers

Feature

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Juntion
- Superfast reverse recovery time
- 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	Symbol	PES1 AF	PES1 BF	PES1 CF	PES1 DF	PES1 EF	PES1 GF	PES1 JF	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at Ta =100 °C	I _{F(AV)}				1				А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}				30				А
Maximum Forward Voltage at 1 A	V _F	1 1.25 1.			1.7	V			
Maximum DC Reverse Current Ta=25 °C at Rated DC Blocking Voltage Ta=125 °C	I _R	5 100					μA		
Typical Junction Capacitance at V_R =4V, f=1MHz	Cj	10					pF		
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A, I _π =0.25A	t _{rr}	35					nS		
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150				°C			



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Typical Characteristics







Fig.2 Maximum Average Forward Current Rating



Fig.3 Typical Reverse Characteristics



Fig.4 Typical Forward Characteristics



Fig.5 Typical Junction Capacitance

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Solder Reflow Recommendation



Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec

Product dimension (SMAF)



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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	7∘
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	Shipping			
PES1AF-PES1JF	SMAF (Pb-Free)	5000/ Tape & Reel			

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