# E7V0MBWT1A-HAF

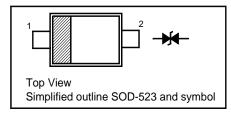
# **ESD Protection Diode**

## **Features**

- Low leakage current
- Halogen and Antimony Free(HAF), RoHS compliant

## **PINNING**

PIN	DESCRIPTION		
1	Anode		
2	Anode		



Absolute Maximum Ratings (T<sub>a</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (tp = 8/20 μs)	P <sub>PK</sub>	175	W
Peak Pulse Current (tp = 8/20 μs)	I <sub>PP</sub>	8	А
ESD ( IEC 61000-4-2) Air Conta	ct V <sub>ESD</sub>	± 30 ± 30	KV
Operating Junction Temperature	Tj	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150	°C

## Characteristics at T<sub>a</sub> = 25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	7	V
Reverse Breakdown Voltage at I <sub>R</sub> = 1 mA	$V_{(BR)R}$	7.5	-	-	V
Reverse Current at V <sub>RWM</sub> = 7 V	I <sub>R</sub>	-	-	0.5	μA
Clamping Voltage at I <sub>PP</sub> = 8 A, tp = 8/20 µs	V <sub>C</sub>	-	-	22	V
Junction Capacitance at V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>j</sub>	-	32	-	pF

#### **Electrical Characteristic Curves**

Fig 1. Pulse Waveform

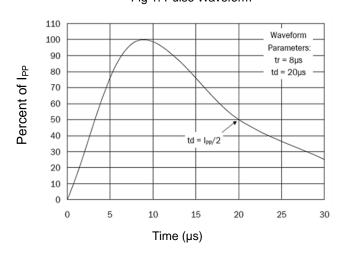
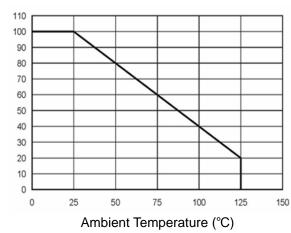


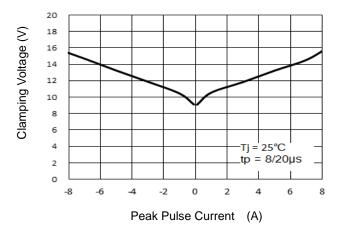
Fig 2. Power Derating Curve



% of Rated Power or Ipp

Fig 3. Clamping Voltage Curve

Fig 4. Junction Capacitance



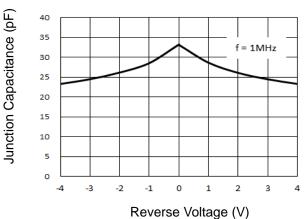
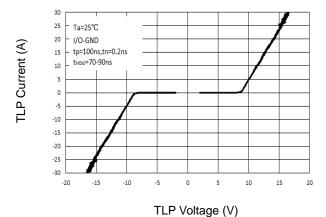


Fig. 5 TLP Curve

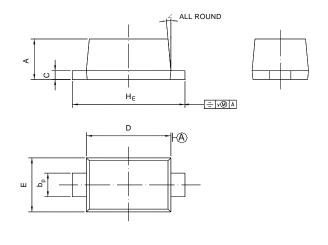




## **PACKAGE OUTLINE**

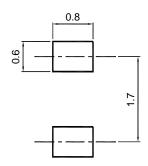
# Plastic surface mounted package; 2 leads

SOD-523



UNIT	Α	bp	С	D	Е	H <sub>E</sub>	V	_
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°

# **Recommended Soldering Footprint**



Packing information

•	acking iiii	Officialion					
	Package	Tape Width (mm)	Pitch		Reel	Size	
			mm	inch	mm	inch	Per Reel Packing Quantity
	SOD-523	8	4 ± 0.1	0.157 ± 0.004	178	7	4,000

# **Marking information**

" LW " = Part No.

" III " = Marking line

" • "= HAF (Halogen and Antimony Free)

Font type: Arial



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