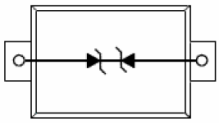
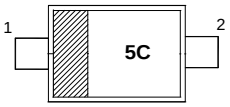
迈拓电子
MAITUO ELECTRONIC

Transient Voltage Suppressors for ESD Protection



●APPLICATIONS

1)Cell phones
2)Portable devices
3)Digital cameras
4)Power supplies



SOD-523

●FEATURES

1)Small Body Outline Dimensions
2)Low Body Height
3)Peak Power up to 90 Watts @ 8 x 20 _s Pulse
4)Low Leakage
5)Response Time is Typically < 1 ns
6)ESD Rating of Class 3 (> 16 kV) per Human Body Model
7)IEC61000−4−2 Level 4 ESD Protection
8)We declare that the material of product compliant with RoHS requirements and Halogen Free.

MARKING:

DESD5Z3.3	ZE8
DESD5Z5.0	5C
DESD5Z8.0	GT

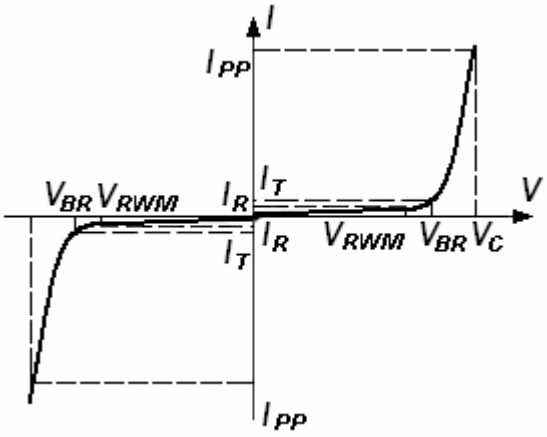
●ABSOLUTE RATINGS(Ta = 25℃)

Parameter	Symbol	Limits	Unit
IEC 61000−4−2 (ESD) Contact		±8	kV
Air		±15	
ESD Voltage(Per Human Body Model)		16	kV
Peak Pulse Power (tp = 8/20μs)	P_{PP}	90	W
Maximum Junction Temperature	T_J	150	℃
Storage temperature	Tstg	−55～+155	℃
Operating Temperature Range	T_{OP}	−40～+125	℃
Lead Solder Temperature − Maximum (10 Second Duration)	T_L	260	℃

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Electrical Parameter

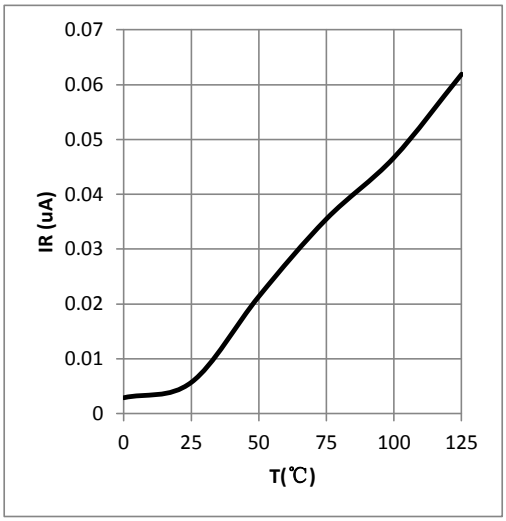
Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
I_T	Test Current
V_{BR}	Breakdown Voltage @ I_T

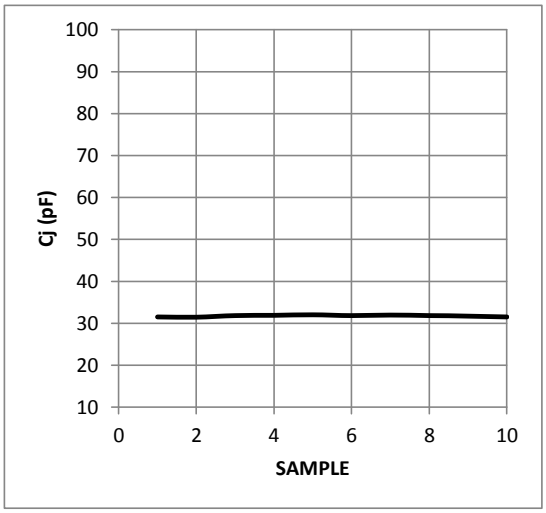


●ELECTRICAL CHARACTERISTICS (Ta= 25℃)

Device	VRWM (V)	IR (u A) @VRWM	VBR (V) @ IT (Note 1)		IT	VC (V) @Ipp = 1 A	VC (V) @Max Ipp	IPP(A)	C (pF)
	Max	Max	Min	Max	mA	Max	Max	Max	Typ
DESD5Z3.3	3.3	1	5.0	6.5	1	7.0	10.0	6.0	16
DESD5Z5.0	5	1	5.6	7.8	1	11.6	18.6	5.0	25
DESD5Z8.0	8	1	8.5	10.5	1	17.5	25.6	3.0	7

1. VBR is measured with a pluse test current IT at an ambient temperature of 25℃.

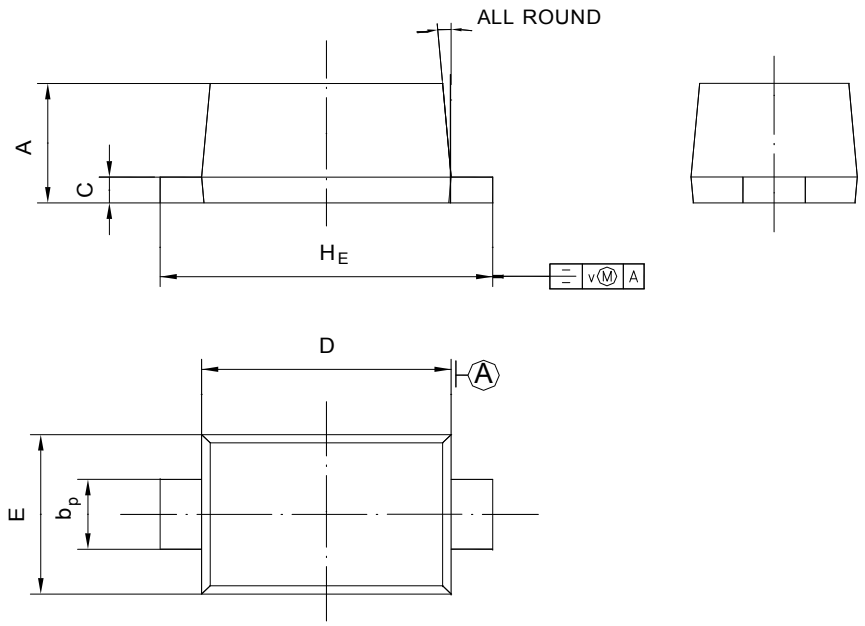




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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **SOD-523**



UNIT	A	b_p	C	D	E	H_E	V	
mm	0.68 0.58	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°