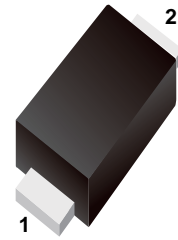


■ Transient Voltage Suppressors for ESD Protection

■ Features

- Stand-off Voltage: 5V0
- Low Leakage
- Response Time is Typically < 1ns
- IEC61000-4-2 Level 4 ESD Protection



■ Simplified outline(SOD-523)



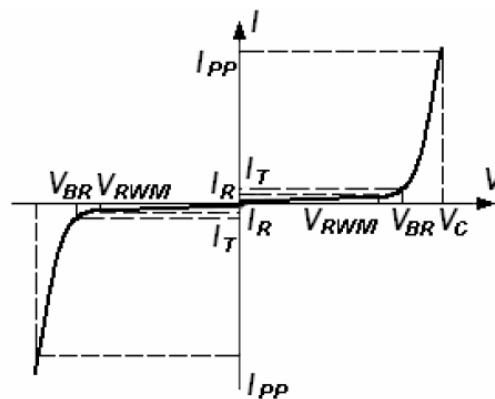
■ Absolute Maximum Ratings  $T_A = 25^{\circ}\text{C}$  unless otherwise noted

Symbol	Parameter	Value	Units
<b>V<sub>pp</sub></b>	IEC61000-4-2(ESD) Air Contact	$\pm 15$ $\pm 8$	KV
<b>ESD</b>	Per Human Body Model	16	KV
<b>P<sub>D</sub></b>	Power Dissipation (Note 1)	150	mW
<b>T<sub>stg</sub></b>	Storage Temperature Range	-55 to +150	$^{\circ}\text{C}$
<b>T<sub>J</sub></b>	Operating Junction Temperature	+150	$^{\circ}\text{C}$
<b>T<sub>L</sub></b>	Max Lead Solder Temperature range (10 Second Duration)	260	$^{\circ}\text{C}$

These ratings are limiting values above which the serviceability of the diode may be impaired.  
Note 1. FR-5 = 1.0 x 0.75 x 0.62 in.

■ 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 @ $I_T$



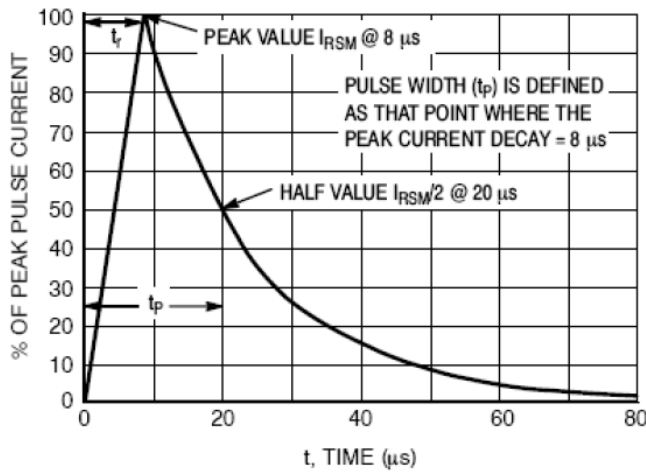
■ **Electrical Characteristics** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Device Type	$V_{RWM}$ (Volts)	$I_R @ V_{RWN}$ ( $\mu\text{A}$ )	$V_{BR} @ I_T$ (Note 2) (Volts)		$I_T$ (mA)	$I_{PP+}$ (A)	$V_C @ \text{Max } I_{PP+}$ (Volts)	$P_{PK+}$ (W)	C @ $V_R = 0V, f = 1\text{MHz}$ (pF)
	Max	Max	Min	Max		Max	Max	Max	Typ.
ESD5Z5.0C	5.0	1	5.6	7.8	1.0	4	12	48	15

+ Surge current waveform per Figure 1.

Note 2:  $V_{BR}$  is measured with a pulse test current  $I_T$  at an ambient temperature of  $25^\circ\text{C}$ .

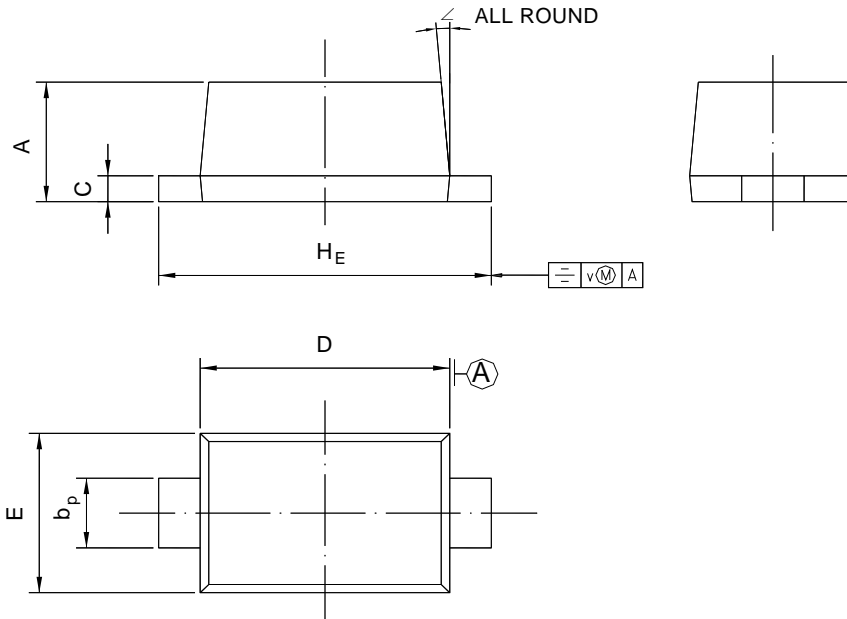
■ **SURGE CURRENT WAVEFORM:**



**Figure 1. 8 x 20  $\mu\text{s}$  Pulse Waveform**

**Package Outline SOD-523**

Plastic surface mounted package; 2 leads



UNIT	A	$b_p$	C	D	E	$H_E$	V	$\angle$
mm	0.70	0.4	0.135	1.25	0.85	1.7	0.1	5°
	0.60	0.3	0.100	1.15	0.75	1.5		

**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
SOD-523	Tape/Reel, 7" reel	3000	EIA-481-1

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)