

## DESCRIPTION

The JESD3Z5C is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium.

## APPLICATIONS

- ✧ Cellular phones.
- ✧ Portable devices.
- ✧ Digital cameras.
- ✧ Power supplies.

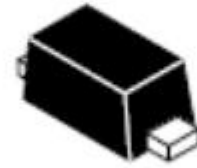
## FEATURES

- ✧ Small Body Outline Dimensions.
- ✧ Low Body Height.
- ✧ Peak Power up to 350 Watts @ 8 x20  $\mu$ s Pulse.
- ✧ Low Leakage current.
- ✧ Response Time is Typically < 1 ns.
- ✧ ESD Rating of Class 3 (> 16 kV) per Human Body Model.

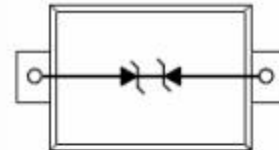
## COMPLIES WITH THE FOLLOWING STANDARDS

- ✧ IEC61000-4-2.
- ✧ Level 4 15 kV (air discharge)  
8 kV(contact discharge) .
- ✧ MIL STD 883E - Method 3015-7 Class 3  
25 kV HBM (Human Body Model) .

**SOD-323**



**PIN CONFIGURATION**

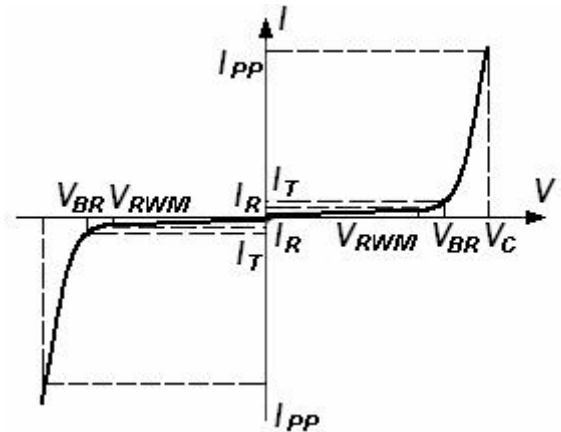


**DEVICE CHARACTERISTICS**
**Absolute Ratings ( $T_{amb}=25^{\circ}C$ )**

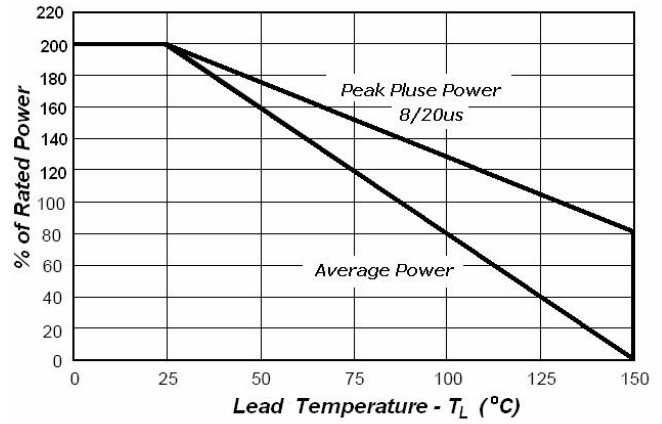
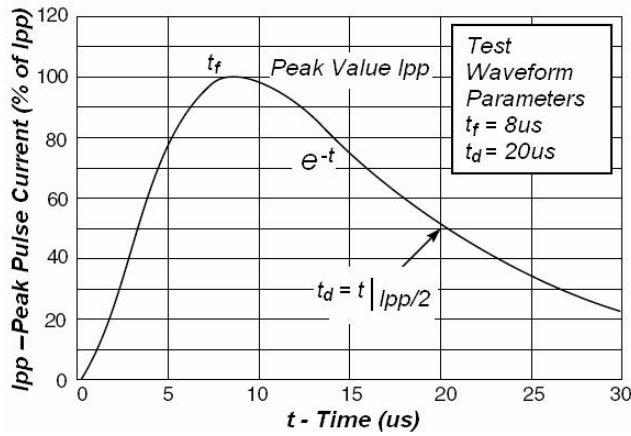
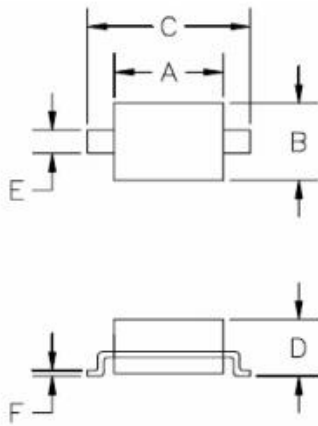
Symbol	Parameter	Value	Units
$P_{pp}$	Peak Pulse Power ( $t_p=8/20ps$ )	350	W
$T_L$	Maximum lead temperature for soldering during 10s	260	$^{\circ}C$
$T_{stg}$	Storage Temperature Range	-55 to +155	$^{\circ}C$
$T^{\circ}p$	Operating Temperature Range	-40 to +125	$^{\circ}C$
$T_j$	Maximum junction temperature	150	$^{\circ}C$
	IEC61000-4-2 (ESD) air discharge contact discharge	$\pm 15$ $\pm 8$	kV
	IEC61000-4-4 (EFT)	40	A
	ESD Voltage Per Human Body Model Per Machine Model	16 400	kV V

**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( $T_A=25^{\circ}C$  unless otherwise specified)**

Part Numbers	$V_{BR}$			$I_T$	$V_{RWM}$	$I_R$	$C$
	Min	Typ.	Max				Typ. (Note1)
	V	V	V		V	$\mu A$	pF
JESD3Z5C	5.4	6.7	7.8	1	5.0	1	24

**TYPICAL CHARACTERISTICS**

**SOD-323 MECHANICAL DATA**


Dim	Dimensions			
	Inches		Mil	
	Min	Max	Min	Max
A	0.060	0.071	1.5	1.8
B	0.045	0.054	1.2	1.4
C	0.060	0.107	2.3	2.7
D	-	0.043	-	1.1
E	0.012	0.016	0.3	0.4
F	0.004	0.010	0.10	0.25
H	-	0.004	-	0.10

**CONTROLLING DIMENSION: MILLIMETERS**

Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

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