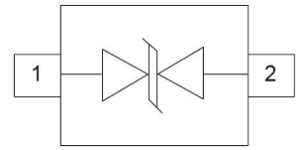


Features

- Unidirectional & Bidirectional configuration
- Ideally suited for automated assembly processes
- Moisture sensitivity level 1
- HBM: JESD22-A114-B: 3B
- RoHS compliant with Halogen-free
- Qualified to AEC-Q101 Standards

HF



SOD-523

Mechanical Data

- Case: SOD-523
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
TBE5V6C	SOD-523	3000 pcs / Tape & Reel	E5V6

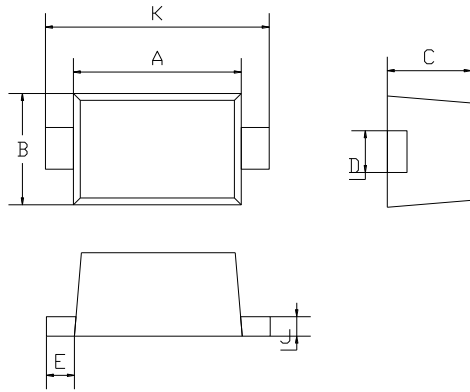
Thermal Characteristics

Parameter	Symbol	Value	Unit
Peak pulse power ($t_p = 10 \times 1000 \mu s$)	P_{PK}	10	W
Power Dissipation	P_D	150	mW
Thermal Resistance Junction-to-Air	$R_{\theta JA}$	834	$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-55 ~ +150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-65 ~ +150	$^{\circ}C$

Electrical Characteristics (@ $T_A = 25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Zener Voltage	V_Z	$I_{ZT} = 1mA$	4.76	5.6	6.44	V
Maximum Reverse Current	I_R	$V_R = 2.5V$	-	-	1	μA
Total Capacitance	C_J	$V_R = 0V, f = 1.0MHz$	-	60	-	pF

Package Outline Dimensions (Unit: mm)



SOD-523		
Dimension	Min.	Max.
A	1.10	1.30
B	0.70	0.90
C	0.50	0.70
D	0.25	0.35
E	0.15	0.25
J	0.05	0.15
K	1.50	1.70

Package Outline Dimensions (Unit: mm)

SOD-523

