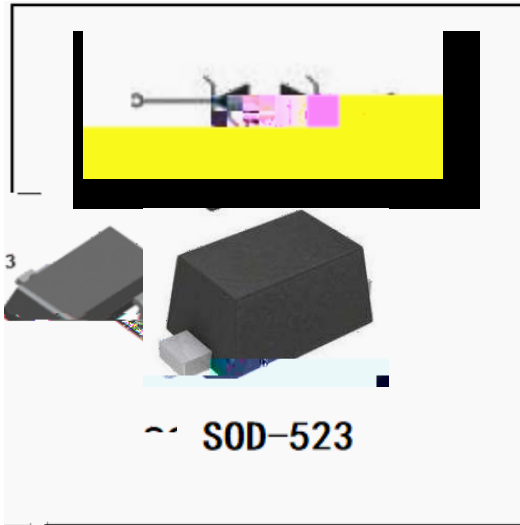


ESD Protection Diode



Features

- For sensitive ESD protection
- Low leakage
- Bi-directional ESD protection of one line
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Mechanical Data

- **Package:** SOD523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** B5

	RWM
Peak Power Dissipation	P _{PK}
Max. Capacitance @ V _R =0 and f=1MHz	C

ESD5V0D5B

Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse Standoff Voltage	V_{RWM}	V				5.0
Reverse Leakage Current	I_R	uA	$V_{RWM}=5.0V$			1
Breakdown Voltage	$V_{(BR)}$	V	$I_T=1mA$	5.8		8.7
Clamping Voltage	V_C	V	$I_{PP}=8A$			16
Junction Capacitance	C_J	pF	$V_R=0V, f=1MHz$		35	45

(1).Other voltages available upon request.

(2).Non-repetitive current pulse 8/20 - s exponential decay waveform according to IEC61000-4-5

Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ESD5V0D5B	F2	Approximate 0.002	8000	80000	320000	7" reel

Characteristics (Typical)



■ Outline Dimensions

v Soldering Footprint



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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor control)