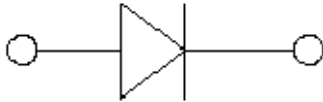


## Schottky Rectifier



### Features

- VR 40V
- $I_{FAV}$  0.5A
- For Surface Mount Application
- Moisture Sensitivity Level 1



### Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** R41

### ■ Maximum Ratings ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	V		40
DC Blocking Voltage	$V_R$	V		40
Peak forward surge current	$I_{FSM}$	A	8.3ms, half sine	5.5A
Average forward current	$I_{FAV}$	A		0.5
Power dissipation	$P_{tot}$	mW		410
Maximum junction temperature	$T_j$	$^\circ\text{C}$		-55 to +150
Storage temperature range	$T_{stg}$	$^\circ\text{C}$		-55 to +150

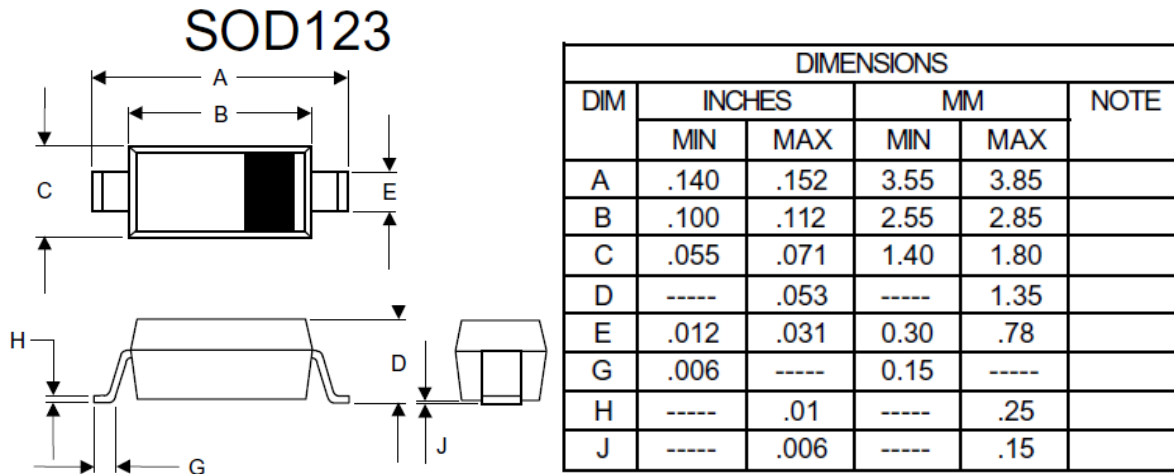
### ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
B0540W	F2	Approximate 0.011	3000	30000	120000	7" reel

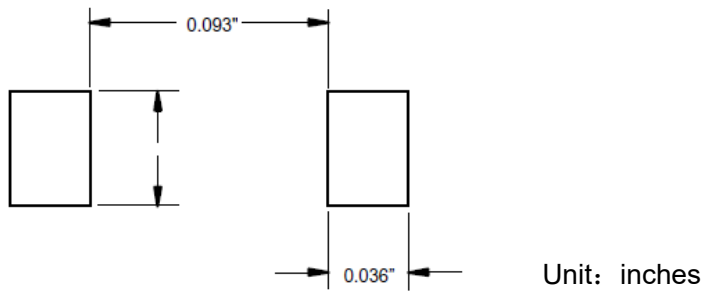
### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Breakdown Voltage	$V_R$	V	$I_R=20\mu\text{A}$	40		
Forward Voltage	$V_F$	V	$I_F=0.5\text{A}, T_A=25^\circ\text{C}$			0.51
			$I_F=1\text{A}, T_A=25^\circ\text{C}$			0.62
Reverse Leakage Current	$I_R$	$\mu\text{A}$	$V_R=20\text{V}$			10
			$V_R=40\text{V}$			20
Typical Junction Capacitance	$C_J$	pF	$V_R=4\text{V}, f=1\text{MHz}$			30

## ■ Outline Dimensions



## ■ Soldering Footprint





## B0540W

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