

SOD323

- V_{RRM} 40V
- I_{FAV} 200mA
- Part no. with suffix "Q" means AEC-Q101 qualified

Mechanical Data

- Case:** SOD323
- Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity:** Cathode line denotes the cathode end
- Marking:** 43

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

PARAMETER	SYMBOL	UNIT	CONDITIONS	VALUE
Repetitive Peak Reverse Voltage	V_{RRM}	V		40
Average Forward Current	I_{FAV}	mA		200
Peak Forward Surge Current	I_{FSM}	A	Square wave tp $\leq 10\text{ms}$	0.6
Power Dissipation	P_{tot}	mW		250
Thermal Resistance Junction To Ambient air	R_{thJA}	K/W		500
Junction Temperature	T_j			-55 to +150
Storage Temperature Range	T_{stg}			-55 to +150

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

	SYMBOL	UNIT	CONDITIONS	MIN	MAX
	V_F	V	$I_F=1\text{mA}$		0.37
			$I_F=40\text{mA}$		1
	I_R	μA	$V_R=30\text{V}$		0.5
Reverse Breakdown Voltage	V_{BR}	V	$I_R=10\mu\text{A}$	6	
					5
Reverse Recovery Time	t_{rr}	ns	$I_F=I_R=5\text{mA}, I_{rr}=0.1I_R, R_L=100\Omega$		5



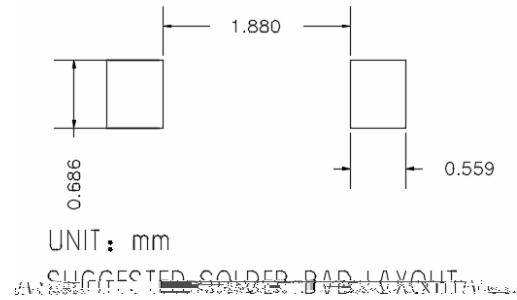
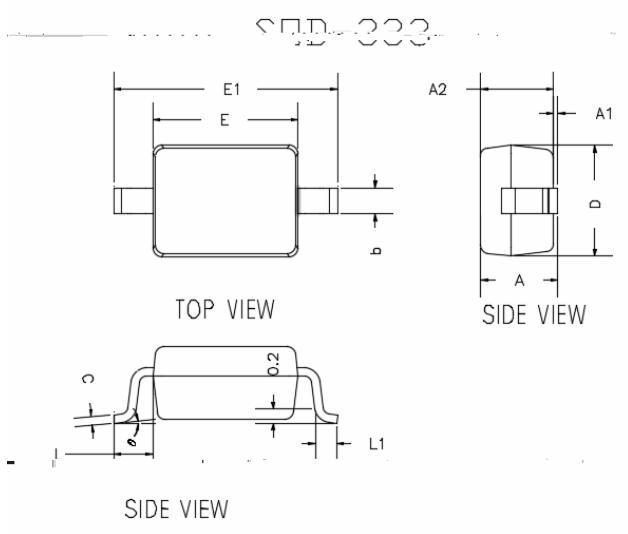
■ **Ordering Information** (Example)

PREFERED P/N	PACKING CODE	
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BAS40WSQ

■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	---	0.0393	---	1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	0.0098	0.0157	0.2500	0.4000
D	0.0472	0.0551	1.2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2.7000
L	0.0187 TYP		0.475 TYP	
L1	0.0098	0.0157	0.250	0.400
θ	0°	8°	0°	8°

■ Marking Information



Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black

BAS40WSQ

Disclaimer

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