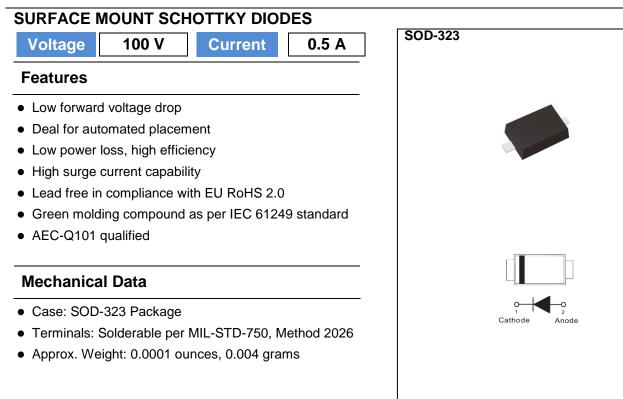
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### Maximum Ratings and Thermal Characteristics ( $T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	V
Maximum Rms Voltage	V <sub>RMS</sub>	70	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	100	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	0.5	А
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I <sub>FSM</sub>	5.5	А
Typical Junction Capacitance Measured at 1 MHZ And Applied V <sub>R</sub> = 4 V	CJ	21	pF
Typical Thermal Resistance	${\sf R}_{ extsf{ heta}JA}^{(1)}$ ${\sf R}_{ extsf{ heta}JC}^{(1)}$	650 230	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C





<b>Electrical Characteristics (T</b>	$_{A} = 25^{\circ}C$ unless otherwise noted)
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage V		$I_F = 0.1 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.59	-	V
		$I_F = 0.25 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.7	-	
	V	$I_F = 0.5 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.85	
	VF	I <sub>F</sub> = 0.1 A, T <sub>J</sub> = 125 °C	-	0.48	-	
		I <sub>F</sub> = 0.25 A, T <sub>J</sub> = 125 °C	-	0.57	-	
		I <sub>F</sub> = 0.5 A, T <sub>J</sub> = 125 °C	-	0.64	-	
Reverse Current		$V_R = 50 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	5	-	
	I <sub>R</sub> <sup>(3)</sup>	$V_{R} = 80 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	15	-	nA
	I <sub>R</sub> "	$V_R = 100 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	1	A
		V <sub>R</sub> = 100 V, T <sub>J</sub> = 125 °C	-	40	_	uA

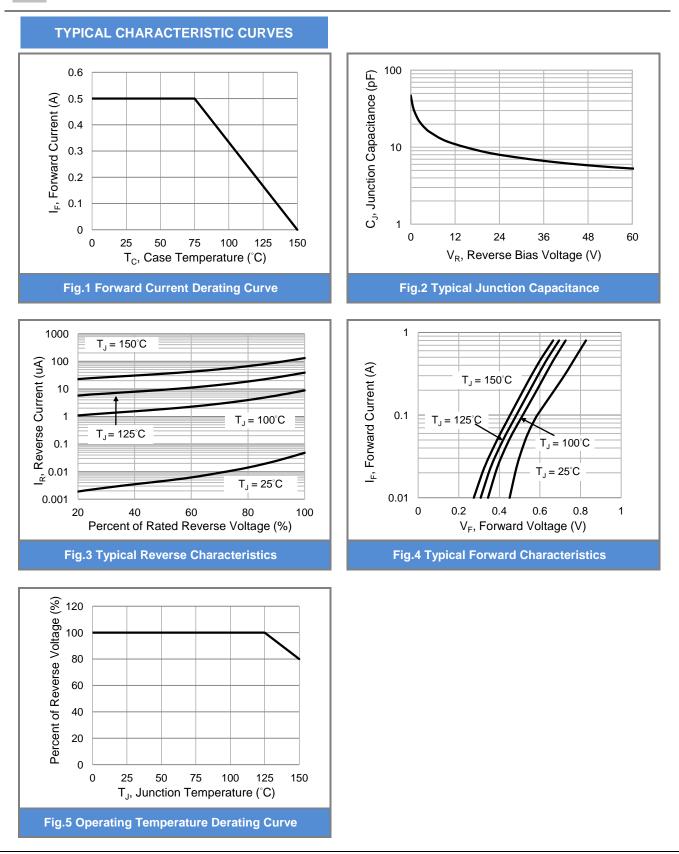
NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm<sup>2</sup> copper pad area
- 3. Short duration pulse test used to minimize self-heating effect

November 1,2017-REV.00







**BAS100CS-AU** 



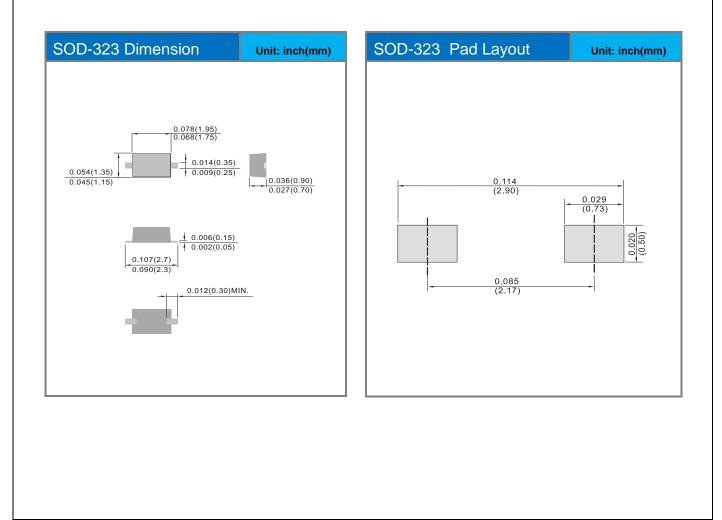




#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAS100CS-AU_R1_000A1	SOD-323	5K / 7" Reel	0CS	Halogen free

#### Packaging Information & Mounting Pad Layout





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