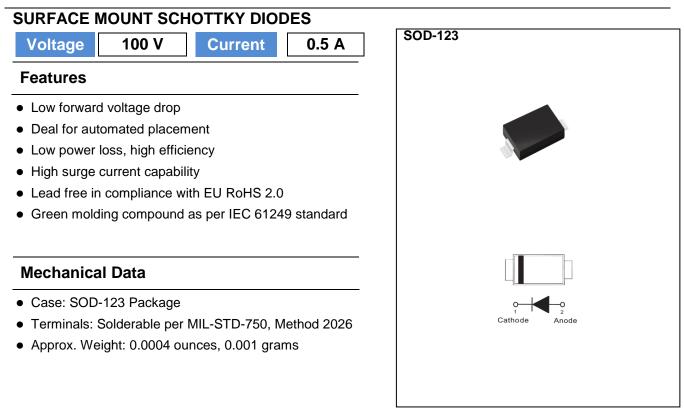
ΡΛΝ	ĴΪΤ
	SEMI CONDUCTOR

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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 _{RRM}	100	V	
Maximum Rms Voltage	V _{RMS}	70	V	
Maximum Dc Blocking Voltage	V _{DC}	100	V	
Maximum Average Forward Current	I _{F(AV)}	0.5	А	
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	5.5	A	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	21	pF	
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	510	°C/W	
Operating Junction Temperature Range	R _{θJC} ⁽²⁾ T _J	100 -55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	





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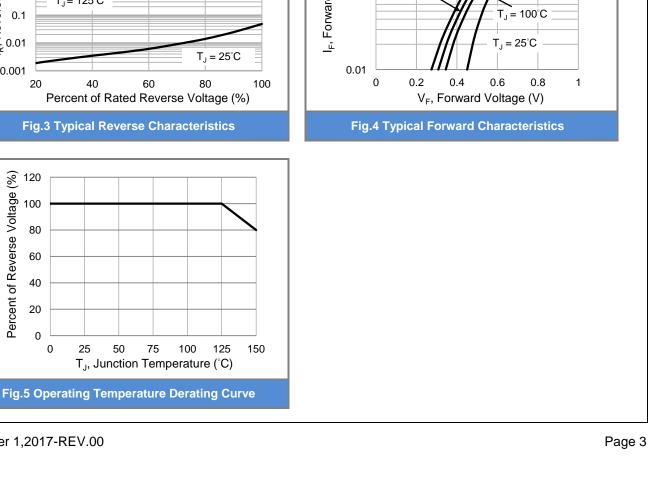
Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

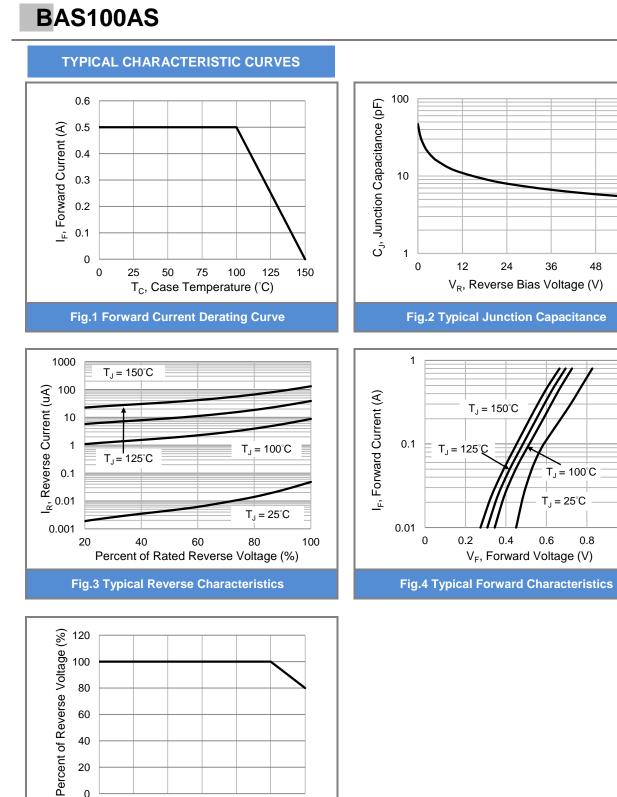
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_F = 0.1 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.59	-	V
		$I_F = 0.25 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	0.70	-	
		$I_F = 0.5 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.85	
		I _F = 0.1 A, T _J = 125 °C	-	0.48	-	
		I _F = 0.25 A, T _J = 125 °C	-	0.57	-	
		I _F = 0.5 A, T _J = 125 °C	-	0.64	-	
Reverse Current	۱ _R ⁽³⁾	$V_{R} = 50 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	5	-	
		$V_{R} = 80 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	15	-	nA
		$V_R = 100 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	1	A
		V _R = 100 V, T _J = 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 cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect

T_J, Junction Temperature (°C)









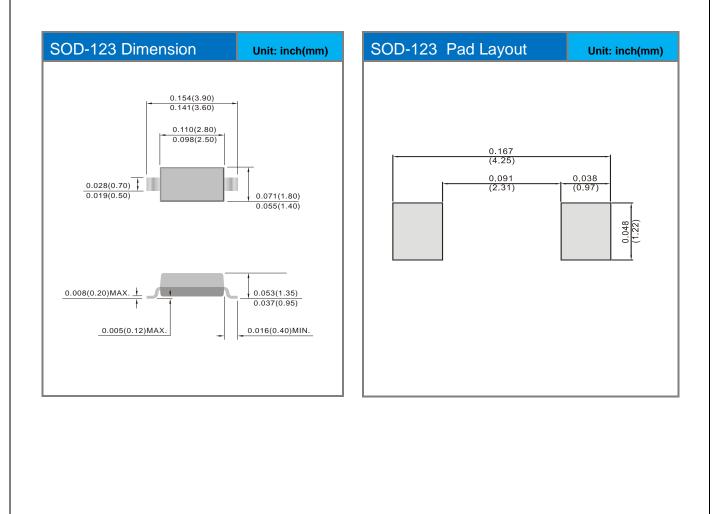




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAS100AS_R1_00001	SOD-123	3K / 7" Reel	0AS	Halogen free

Packaging Information & Mounting Pad Layout





BAS100AS

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