

Maximum Ratings and Thermal Characteristics (T_A = 25^oC unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	V	
Maximum Rms Voltage	VRMS	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	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	21	pF	
Typical Thermal Resistance	R _{0JA} ⁽¹⁾	650	°C/W	
	R _{eJC} ⁽¹⁾	230		
Operating Junction Temperature Range	TJ	-55~150	٥C	
Storage Temperature Range	T _{STG}	-55~150	°C	



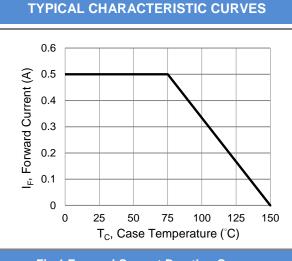
Electrical Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage		I⊧ = 0.1 A, TJ = 25 °C	-	0.59	-	V
		I⊧ = 0.25 A, TJ = 25 °C	-	0.7	-	
	VF	I _F = 0.5 A, T _J = 25 °C	-	-	0.85	
	VF	I⊧ = 0.1 A, TJ = 125 °C	-	0.48	-	
		I _F = 0.25 A, T _J = 125 °C	-	0.57	-	
		I⊧ = 0.5 A, TJ = 125 °C	-	0.64	-	
Reverse Current		V _R = 50 V, T _J = 25 °C	-	5	-	nA
	L (3)	V _R = 80 V, T _J = 25 °C	-	15	-	
	I _R ⁽³⁾	V _R = 100 V, T _J = 25 °C	-	_	1	
		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







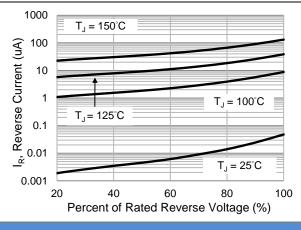
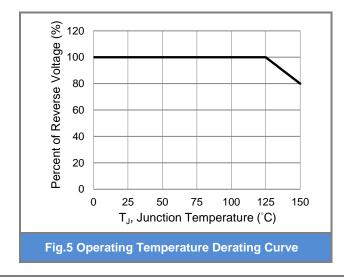


Fig.3 Typical Reverse Characteristics



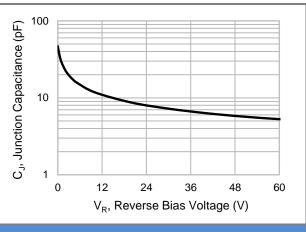


Fig.2 Typical Junction Capacitance

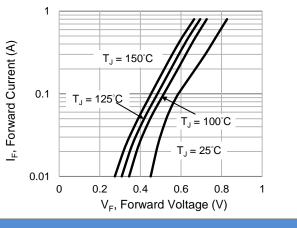


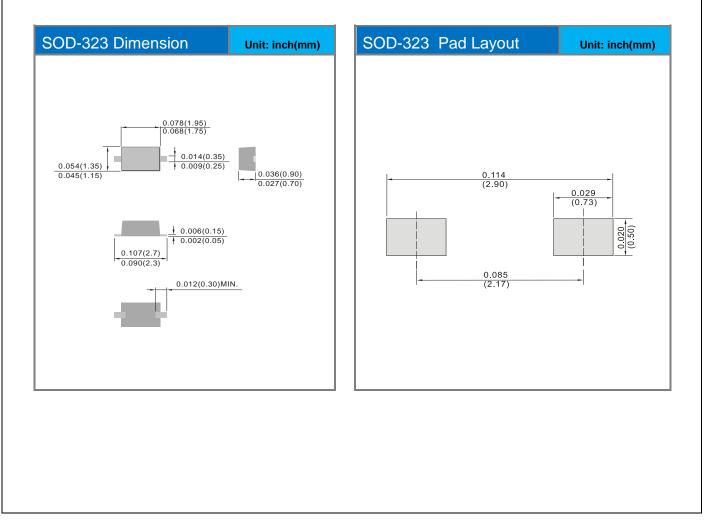
Fig.4 Typical Forward Characteristics



Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
BAS100CS	SOD-323	5K / 7" Reel	OCS	

Packaging Information & Mounting Pad Layout





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