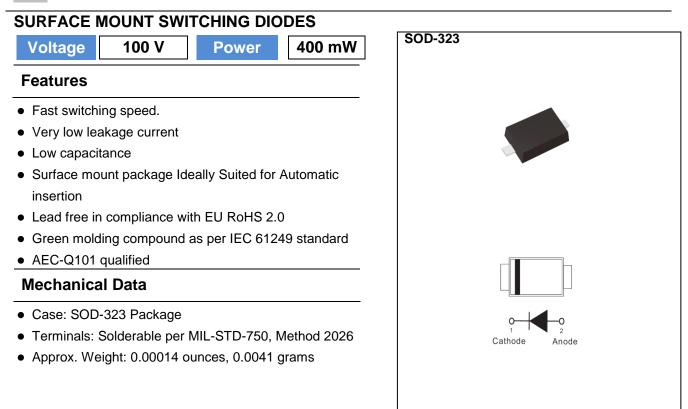
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ΡΛΝ	JIT
	SEMI
	CONDUCTOR



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

PARAMETER		SYMBOL	LIMIT	UNITS
Reverse Voltage		V _R	100	V
Peak Reverse Voltage		V _{RM}	100	V
Maximum Average Forward Current		I _{F(AV)}	250	mA
Non-repetitive Peak forward current at $T_J(init)=25^{\circ}C$	tp = 0.001 ms		4	
	tp = 1 ms	I _{FSM}	1	А
	tp = 1 s		0.5	
Repetitive peak forward current tp ≤ 0.5 ms ; D ≤ 0.25		I _{FRM}	500	mA
Power Dissipation		$P_D^{(1)}$	400	mW
Maximum Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0 V$		CJ	1.5	pF
Typical Thermal Resistance		$R_{\theta JA}^{(2)}$ $R_{\theta JC}^{(1)}$	500 200	°C/W
Operating Junction Temperature Range		TJ	-55~150	°C
Storage Temperature Range		T _{STG}	-55~150	°C



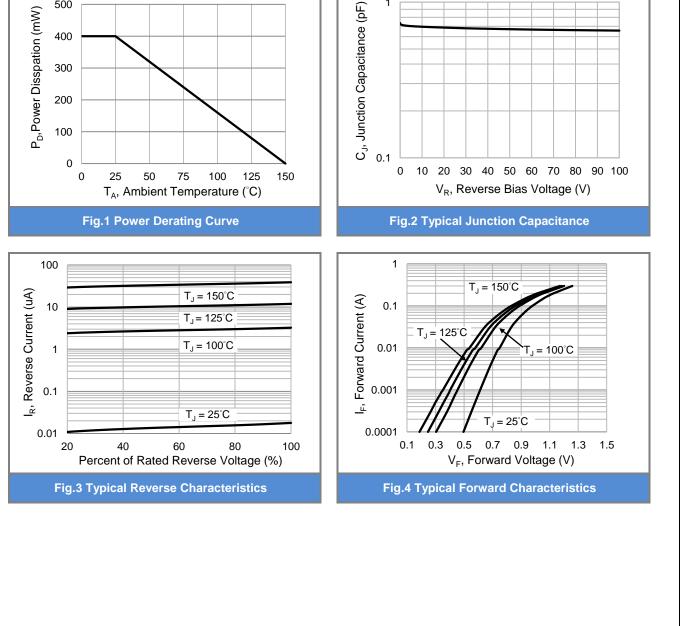


Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_{F} = 1 \text{ mA}, T_{J} = 25 ^{\circ}\text{C}$	-	-	0.715	V
		$I_F = 10 \text{ mA}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.855	
		$I_F = 50 \text{ mA}, \text{ T}_J = 25 \degree \text{C}$	-	-	1	
		$I_F = 150 \text{ mA}, T_J = 25 \degree \text{C}$	-	-	1.25	
Reverse Current I _R		$V_R = 25 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.03	uA
	I _R	$V_{R} = 100 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	0.5	
Maximum Reverse Recovery Time	$T_{RR}^{(3)}$		-	-	4	ns

NOTES:

- 1. Mounted on aluminum plate.
- 2. Mounted on a FR4, single-sided copper, with 114 x 76mm PCB.
- 3. Test Condition : $I_F{=}10mA$ to $I_R{=}10mA,$ Recovery to 1mA, $R_L{=}100\Omega$.



1



500

TYPICAL CHARACTERISTIC CURVES

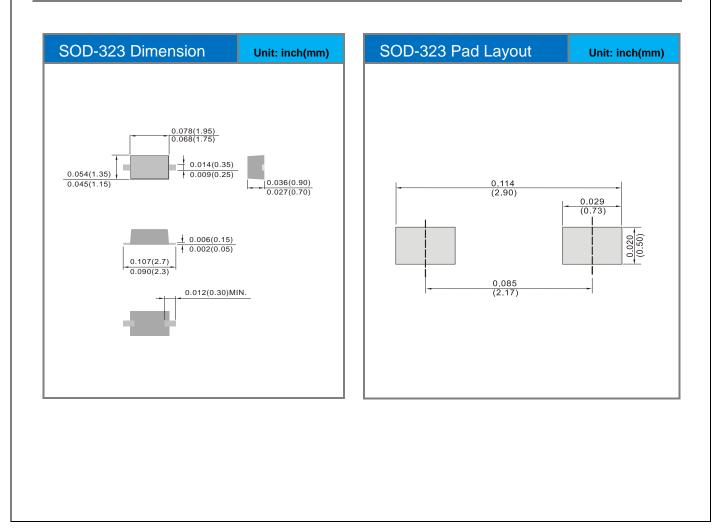




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAS316-AU_R1_000A1	SOD-323	5K / 7" Reel	A16	Halogen free

Packaging Information & Mounting Pad Layout





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