AS316-AU	
IRFACE MOUNT SWITCHING DIODES	
oltage 100 V Power 400 mW	SOD-323
tures	
Fast switching speed.	
/ery low leakage current	
_ow capacitance	
Surface mount package Ideally Suited for Automatic	
insertion	
Lead free in compliance with EU RoHS 2.0	
Green molding compound as per IEC 61249 standard	
AEC-Q101 qualified	
echanical Data	
Case: SOD-323 Package	
erminals: Solderable per MIL-STD-750, Method 2026	1 2 Cathode Anode
Approx. Weight: 0.00014 ounces, 0.0041 grams	Alloue

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

PARAMETER		SYMBOL	LIMIT	UNITS	
Reverse Voltage		VR	100	V	
Peak Reverse Voltage		Vrm	100	V	
Maximum Average Forward Current		IF(AV)	250	mA	
Non-repetitive Peak forward current at TJ(init)=25°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	5ms ; 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 _{0JA} ⁽²⁾	500		
		Rejc ⁽¹⁾	200	°C/W	
Operating Junction Temperature Range		TJ	-55~150	°C	
Storage Temperature Range		Tstg	-55~150	°C	



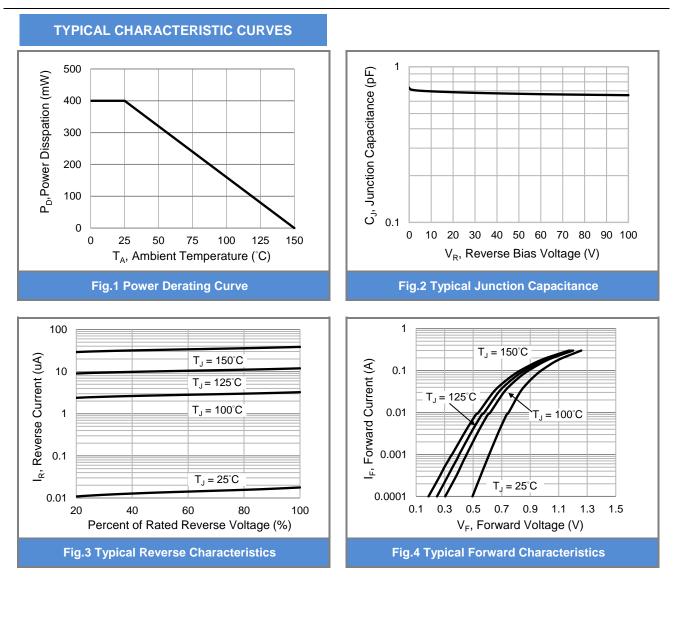
Electrical Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage V _F	VF	I _F = 1 mA, T _J = 25 °C	-	-	0.715		
		I⊧ = 10 mA, TJ = 25 °C	-	-	0.855	V	
		I⊧ = 50 mA, TJ = 25 °C	-	-	1		
	I _F = 150 mA, T _J = 25 °C	-	-	1.25			
Reverse Current I _R		V _R = 25 V, T _J = 25 °C	-	-	0.03		
	V _R = 100 V, T _J = 25 °C	-	-	0.5	uA		
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 : IF=10mA to IR=10mA, Recovery to 1mA, RL=100 $\Omega.$



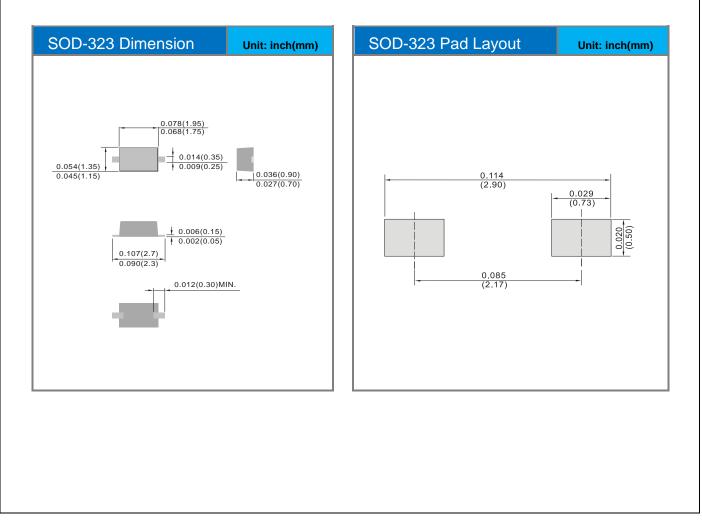




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAS316-AU	SOD-323	5K / 7" Reel	A16

Packaging Information & Mounting Pad Layout





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