

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

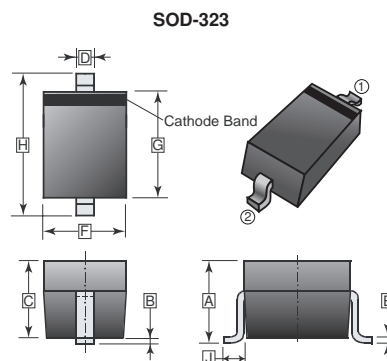
- Low Diode Capacitance
- Low Diode Forward Resistance

## MARKING

A81

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05 REF.		E	0.080	0.180
B	0.20 REF.		F	1.15	1.45
C	0.80	1.00	G	1.60	1.80
D	0.25	0.40	H	2.30	2.70

## MAXIMUM RATINGS (Single diode @ T<sub>A</sub> = 25°C)

Parameter	Symbol	Ratings	Unit
Continuous Reverse Voltage	V <sub>R</sub>	50	V
Continuous Forward Current	I <sub>F</sub>	50	mA
Power Dissipation (T <sub>A</sub> = 90°C)	P <sub>D</sub>	200	mW
Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	85	°C / W
Junction, Storage Temperature	T <sub>J</sub> , T <sub>STG</sub>	150, -55 ~ +150	°C

## ELECTRICAL CHARACTERISTICS (at T<sub>a</sub> = 25°C unless otherwise specified)

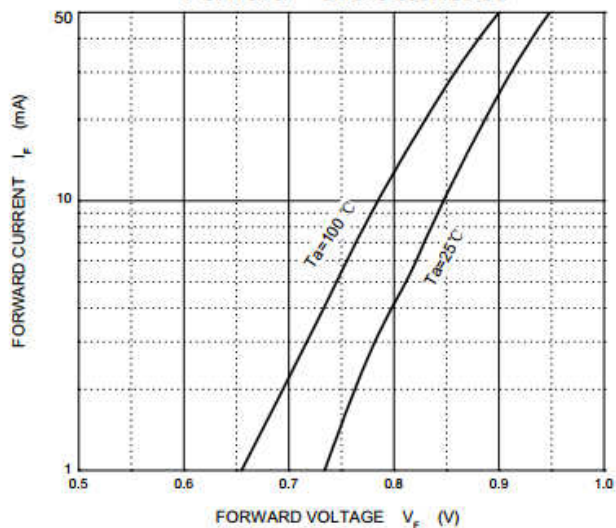
Parameters	Symbol	Min.	Max.	Unit	Test Conditions
Continuous Reverse Voltage	V <sub>R</sub>	50	-	V	I <sub>R</sub> = 10 μA
Forward Voltage	V <sub>F</sub>	-	1.1	V	I <sub>F</sub> = 50 mA
Reverse Current	I <sub>R</sub>	-	100	nA	V <sub>R</sub> = 50 V
Diode Capacitance	C <sub>D1A</sub>	-	0.91	pF	V <sub>R</sub> = 0, f = 1 MHz
	C <sub>D1B</sub>	-	1.11		V <sub>R</sub> = 0, f = 1 MHz
	C <sub>D2</sub>	-	0.55		V <sub>R</sub> = 1 V, f = 1 MHz
	C <sub>D3</sub>	-	0.35		V <sub>R</sub> = 5 V, f = 1 MHz
Diode Forward Resistance <sup>1</sup>	r <sub>D</sub>	-	40	Ω	I <sub>F</sub> = 0.5 mA, f = 100 MHz
		-	25		I <sub>F</sub> = 1 mA, f = 100 MHz
		-	5		I <sub>F</sub> = 10 mA, f = 100 MHz

Note:

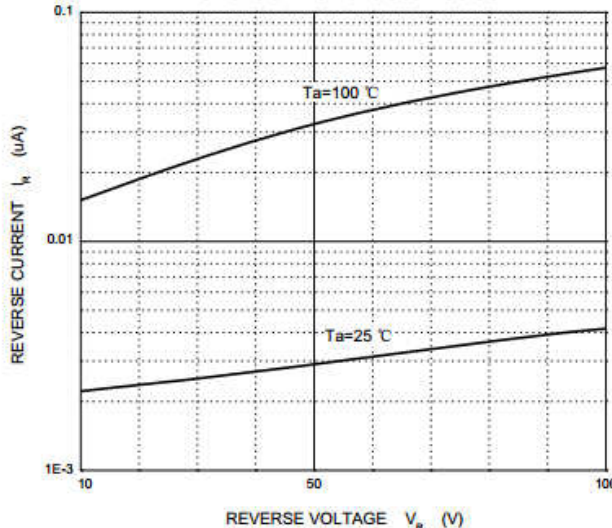
1. Guaranteed on AQL basis: inspection level S4, AQL 1.0

**RATINGS AND CHARACTERISTIC CURVES**

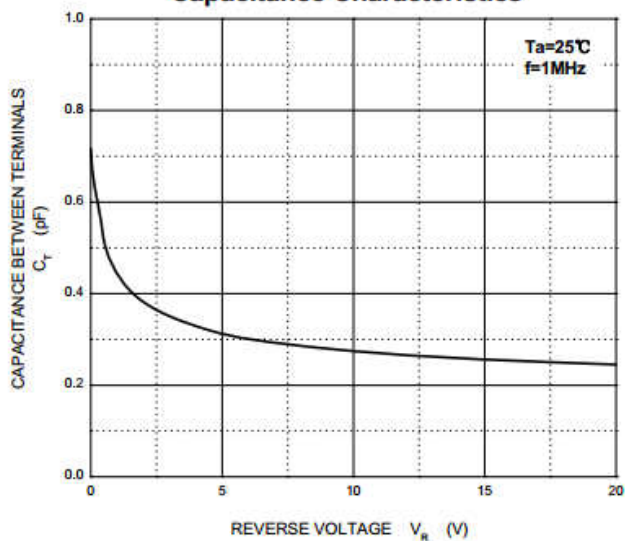
**Forward Characteristics**



**Reverse Characteristics**



**Capacitance Characteristics**



**Power Derating Curve**

