

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

FEATURES

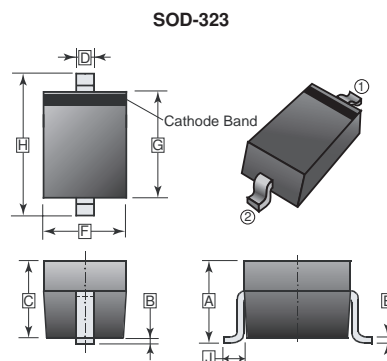
- Low Diode Capacitance
- Low Diode Forward Resistance

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_A = 25°C)

Parameter	Symbol	Ratings	Unit
Continuous Reverse Voltage	V _R	50	V
Continuous Forward Current	I _F	50	mA
Power Dissipation (T _A = 90°C)	P _D	200	mW
Thermal Resistance Junction to Ambient	R _{θJA}	85	°C / W
Junction, Storage Temperature	T _J , T _{STG}	150, -55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (at T_a = 25°C unless otherwise specified)

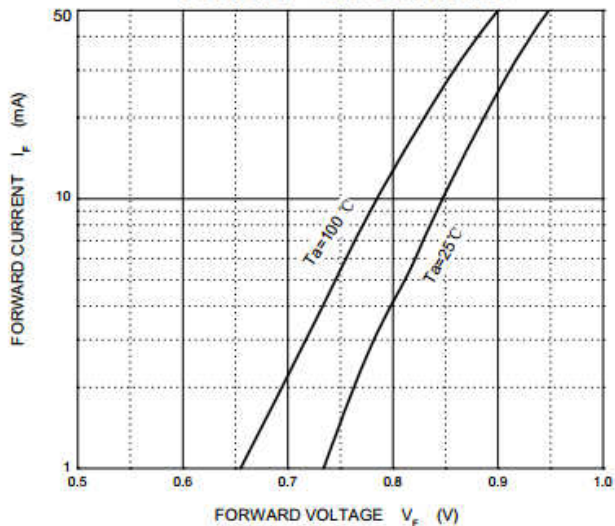
Parameters	Symbol	Min.	Max.	Unit	Test Conditions
Continuous Reverse Voltage	V _R	50	-	V	I _R = 10μA
Forward Voltage	V _F	-	1.1	V	I _F = 50 mA
Reverse Current	I _R	-	100	nA	V _R = 50 V
Diode Capacitance	C _{D1A}	-	0.91	pF	V _R = 0, f = 1MHz
	C _{D1B}	-	1.11		V _R = 0, f = 1MHz
	C _{D2}	-	0.55		V _R = 1 V, f = 1MHz
	C _{D3}	-	0.35		V _R = 5 V, f = 1MHz
Diode Forward Resistance ¹	r _D	-	40	Ω	I _F = 0.5 mA, f = 100 MHz
		-	25		I _F = 1 mA, f = 100 MHz
		-	5		I _F = 10 mA, f = 100 MHz

Note:

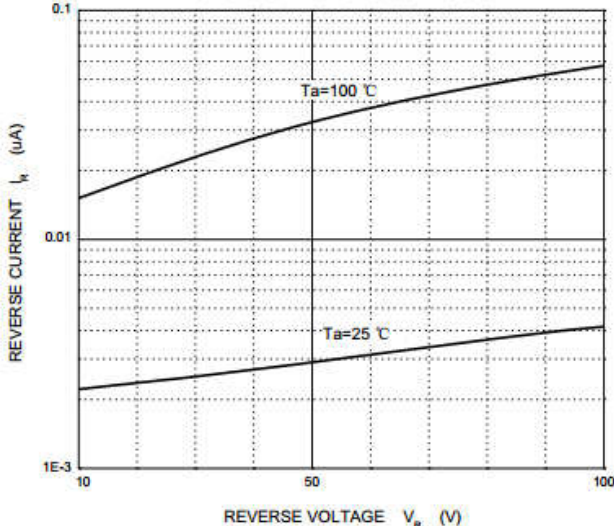
1. Guaranteed on AQL basis: inspection level S4, AQL 1.0

RATINGS AND CHARACTERISTIC CURVES

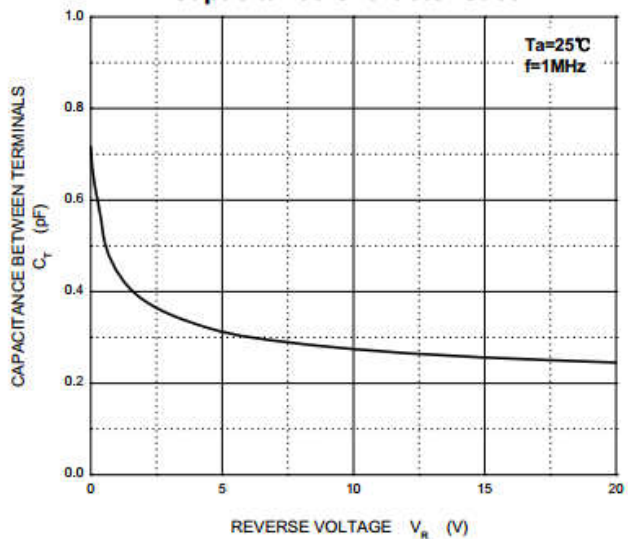
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

