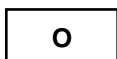


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Low Diode Capacitance
- Low Diode Forward Resistance

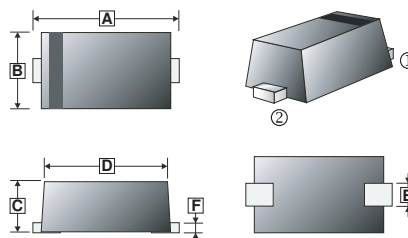
## MARKING



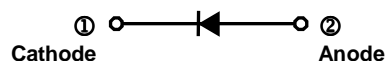
## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	8K	7 inch

## SOD-523



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	D	1.10	1.30
B	0.70	0.90	E	0.25	0.35
C	0.50	0.77	F	0.07	0.20



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

Parameter	Symbol	Ratings	Unit
Continuous Reverse Voltage	V <sub>R</sub>	150	V
Continuous Forward Current	I <sub>F</sub>	100	mA
Power Dissipation	P <sub>D</sub>	150	mW
Thermal Resistance from Junction to soldering point	R <sub>θJS</sub>	85	°C / W
Junction, Storage Temperature	T <sub>J</sub> , T <sub>STG</sub>	-55 ~ +150	°C

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

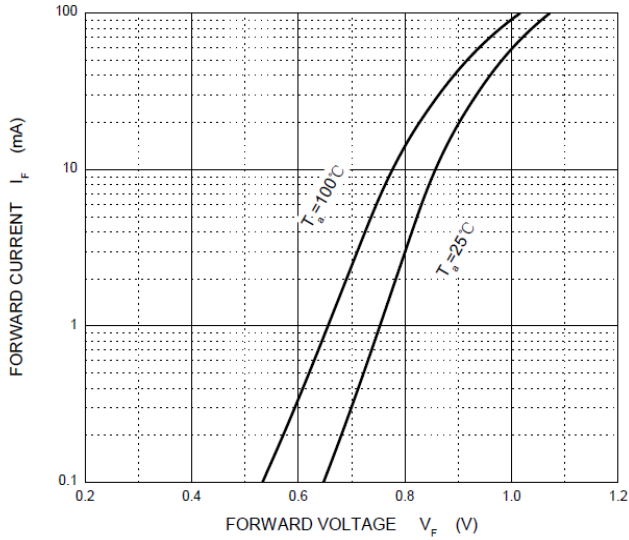
Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Continuous Reverse Voltage	V <sub>R</sub>	150	-	-	V	I <sub>R</sub> = 10 μA
Forward Voltage	V <sub>F</sub>	-	-	1.1	V	I <sub>F</sub> = 50 mA
Reverse Current	I <sub>R</sub>	-	-	10	μA	V <sub>R</sub> = 150 V
Diode Capacitance	C <sub>D1</sub> <sup>1</sup>	-	0.4	-	pF	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>	-	-	9	Ω	I <sub>F</sub> = 0.5 mA, f = 100 MHz
		-	-	6.5		I <sub>F</sub> = 1 mA, f = 100 MHz
		-	-	2.5		I <sub>F</sub> = 10 mA, f = 100 MHz

Note:

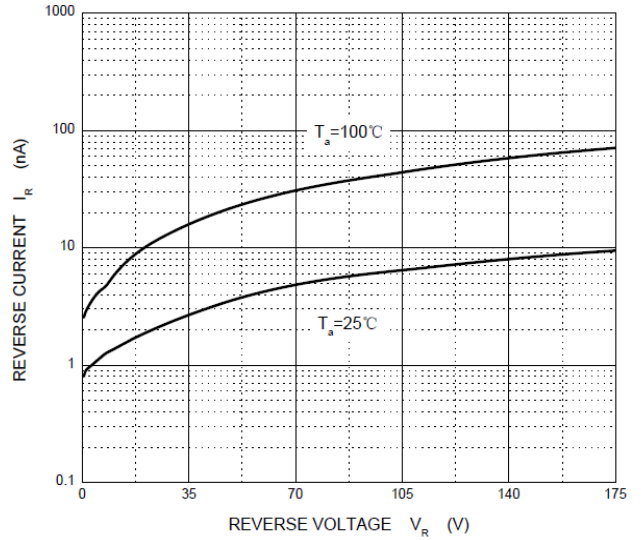
1. Guaranteed on AQL basis: inspection level S4, AQL 1.0

**RATINGS AND CHARACTERISTIC CURVES**

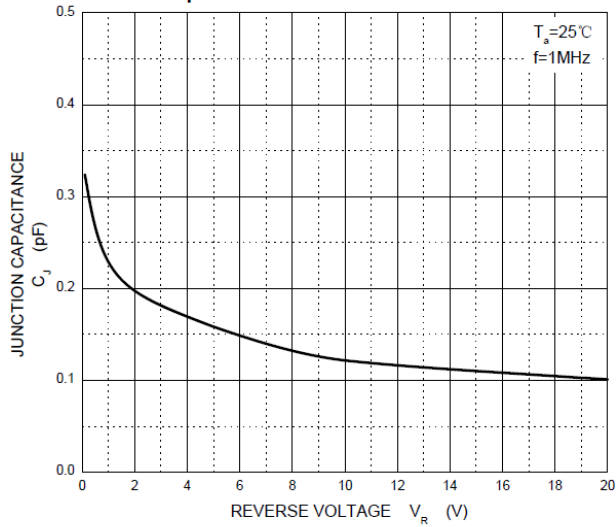
**Forward Characteristics**



**Reverse Characteristics**



**Capacitance Characteristics Per Diode**



**Power Derating Curve**

