

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

## FEATURES

- Low Forward Voltage Drop
- Extremely Fast Switching Speed
- Low Reverse Capacitance

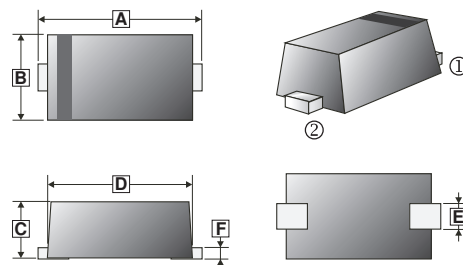
## MARKING:

7B

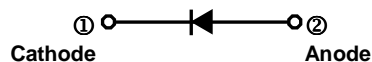
## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	3K	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



## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Non-repetitive peak reverse voltage	V <sub>R</sub>	30	V
Repetitive Peak Reverse Voltage	V <sub>R(RM)</sub>	30	V
Forward current	I <sub>F</sub>	200	mA
Non-repetitive peak forward current@ t=1μs	I <sub>FSM</sub>	4	A
Power Dissipation	P <sub>D</sub>	200	mW
Storage temperature	T <sub>J</sub> , T <sub>STG</sub>	125, -65~125	°C

Note:

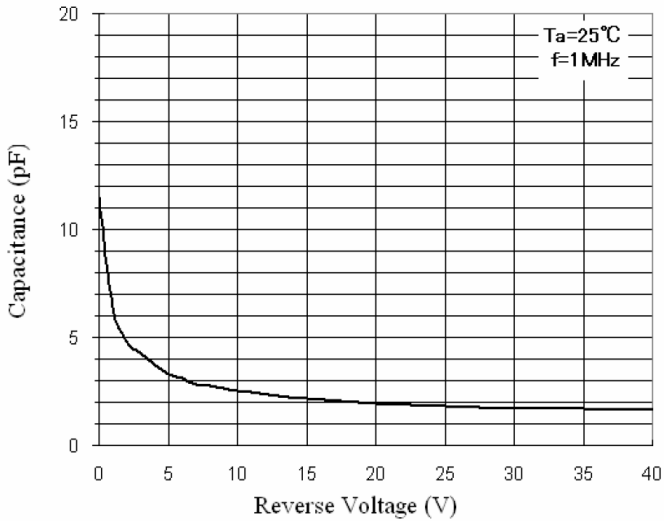
1. These ratings are limiting values above which the serviceability of the diode may be impaired.

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

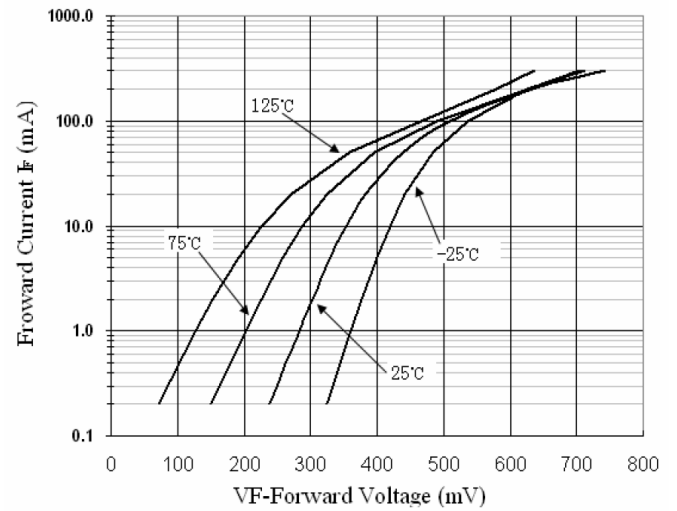
Parameter	Symbol	Min.	Typ.	Max.	Unit	Teat Conditions
Reverse breakdown voltage	V <sub>(BR)R</sub>	30	-	-	V	I <sub>R</sub> = 100μA
Reverse current	I <sub>R</sub>	-	-	500	nA	V <sub>R</sub> =25V
Forward voltage	V <sub>F</sub>	-	0.26	0.33	V	I <sub>F</sub> =2mA
		-	-	0.45		I <sub>F</sub> =15mA
		-	-	1		I <sub>F</sub> =200mA
Capacitance between terminals	C <sub>T</sub>	-	7	-	pF	V <sub>R</sub> =1V, f=1MHz
Reveres recovery time	T <sub>RR</sub>	-	5	-	nS	I <sub>F</sub> = I <sub>R</sub> =10mA, I <sub>RR</sub> =1mA R <sub>L</sub> =100Ω

**RATINGS AND CHARACTERISTIC CURVES**

**Total Capacitance**



**Forward Voltage vs Ambient Temperature**



**Reverse Current vs Reverse Voltage**

