

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

## FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

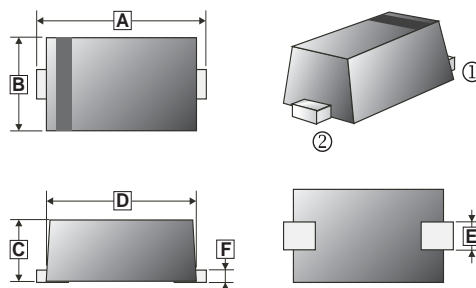
## MARKING

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## 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 (Ta = 25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	75	V
Working Peak Reverse Voltage	$V_{RWM}$	75	V
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Average Rectified Output Current	$I_O$	250	mA
Peak Forward Surge Current	$I_{FSM}$	T=1.0µs	4
		T=1.0s	0.5
Power Dissipation	$P_D$	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C / W
Junction, Storage Temperature	$T_J, T_{STG}$	150, -55 ~ 150	°C

## ELECTRICAL CHARACTERISTICS (Ta = 25°C unless otherwise specified)

Parameters	Symbol	Min.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	75	-	V	$I_R=100\mu A$
Reverse Voltage Leakage Current	$I_R$	-	30	nA	$V_R=25V$
		-	1	µA	$V_R=75V$
Forward Voltage	$V_F$	-	715	mV	$I_F=1mA$
		-	855		$I_F=10mA$
		-	1000		$I_F=50mA$
		-	1250		$I_F=150mA$
Total capacitance	$C_{tot}$	-	1	pF	$V_R=0, f=1MHz$
Reverse Recovery Time	$t_{RR}$	-	4	nS	$I_F=I_R=10mA, I_{RR}=0.1 \times I_R, R_L=100\Omega$

**RATINGS AND CHARACTERISTIC CURVES**

