

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

### FEATURES

- Small surface mounting type
- Two diode elements are connected in series

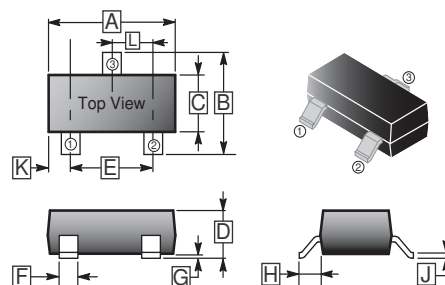
### MARKING:

A7

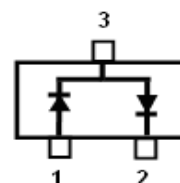
### PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-323	3K	7 inch

### SOT-323



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



### ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		$V_{RM}$	80	V
DC Blocking Voltage		$V_R$	80	V
Forward Continuous Current		$I_{FM}$	300	mA
Average Rectified Output Current		$I_O$	100	mA
Peak Forward Surge Current	@ $t = 1.0\mu\text{s}$	$I_{FSM}$	0.4	A
	@ $t = 10\text{ms}$		1	
Power Dissipation		$P_D$	200	mW
Operating temperature range		$T_{opr}$	-40~100	$^\circ\text{C}$
Junction & Storage Temperature		$T_J, T_{STG}$	150, -55~150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	80	-	V	$I_R=100\mu\text{A}$
Reverse Voltage Leakage Current	$I_R$	-	0.2	$\mu\text{A}$	$V_R=70\text{V}$
Forward Voltage	$V_F$	-	1200	mV	$I_F=100\text{mA}$

**CHARACTERISTIC CURVES**

