

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

FEATURES

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

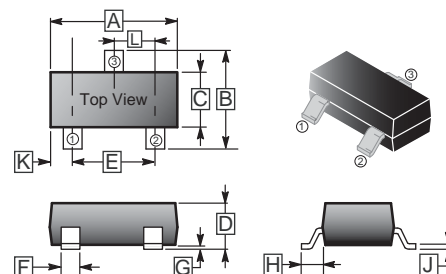
MARKING:

A7

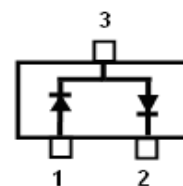
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-323	3K	7 inch

SOT-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.80	2.20	G	0.1 REF.	
B	1.80	2.45	H	0.525 REF.	
C	1.1	1.4	J	0.08	0.25
D	0.80	1.10	K	0.8 TYP.	
E	1.20	1.40	L	0.65 TYP.	
F	0.15	0.40			



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

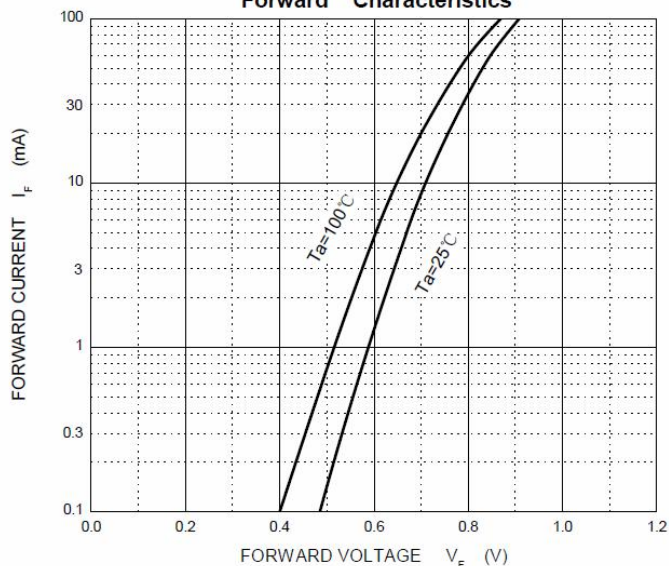
Parameter		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		V_{RM}	80	V
DC Blocking Voltage		V_R	80	V
Forward Continuous Current		I_{FM}	300	mA
Average Rectified Output Current		I_O	100	mA
Peak Forward Surge Current	@ $t = 1.0\mu\text{s}$	I_{FSM}	0.4	A
	@ $t = 10\text{ms}$		1	
Power Dissipation		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)

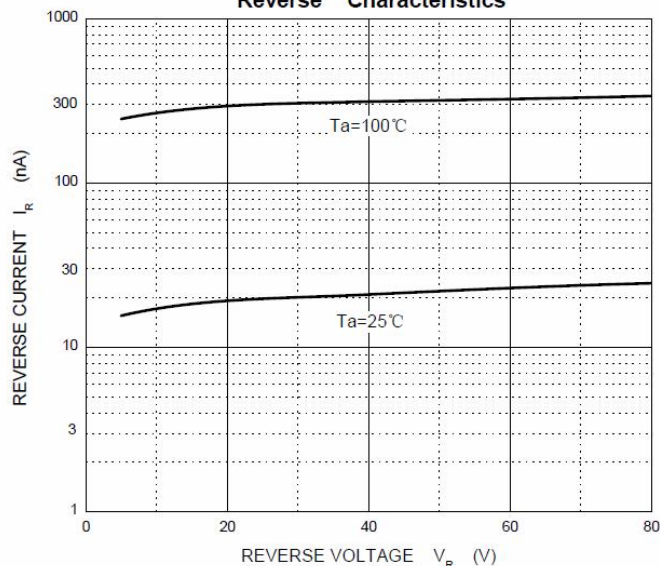
Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	80	-	V	$I_R=100\mu\text{A}$
Reverse Voltage Leakage Current	I_R	-	0.2	μA	$V_R=70\text{V}$
Forward Voltage	V_F	-	1200	mV	$I_F=100\text{mA}$

CHARACTERISTIC CURVES

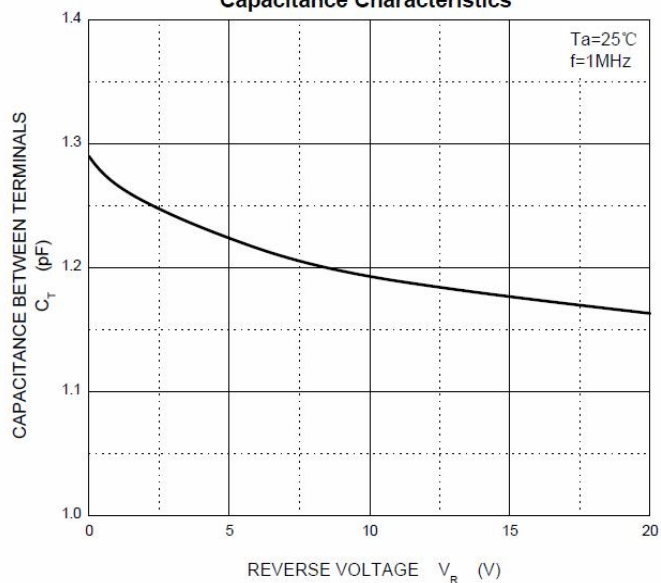
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

