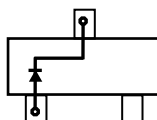


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

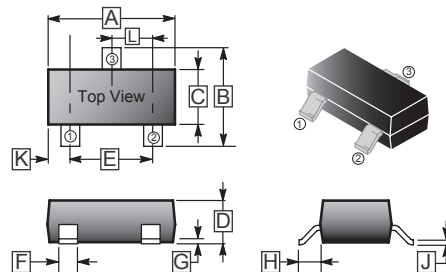
FEATURES

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

MARKING: A2



SOT-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.00	2.20	F	0.20	0.40
B	2.15	2.45	G	-	-
C	1.15	1.35	H	0.525 REF.	
D	0.90	1.10	J	0.08	0.15
E	1.20	1.40			

ABSOLUTE MAXIMUM RATINGS (Single diode @ T_A = 25°C)

Parameter	Symbol	Ratings	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	75	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I _O	150	mA
Peak Forward Surge Current @=1.0μs	I _{FSM}	2.0	A
@=1.0s		1.0	
Power Dissipation	P _D	200	mW
Thermal Resistance Junction to Ambient	R _{θJA}	625	K/W
Junction, Storage Temperature	T _J , T _{STG}	150, -65 ~ +150	°C

ELECTRICAL CHARACTERISTICS (at T_a = 25°C unless otherwise specified)

Parameters	Symbol	Min.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{(BR)R}	75	-	V	I _R = 10 μA
Reverse Voltage Leakage Current	I _R	-	1 25	μA nA	V _R = 75V V _R = 20V
Forward Voltage	V _{F1}	-	715	mV	I _F = 1mA
	V _{F2}	-	855		I _F = 10mA
	V _{F3}	-	1000		I _F = 50mA
	V _{F4}	-	1250		I _F = 150mA
Diode Capacitance	C _D	-	2.0	pF	V _R = 0, f=1MHz
Reverse Recovery Time	t _{RR}	-	4	nS	I _F = I _R = 10 mA, I _{RR} =0.1xI _R , R _L =100Ω

RATINGS AND CHARACTERISTIC CURVES

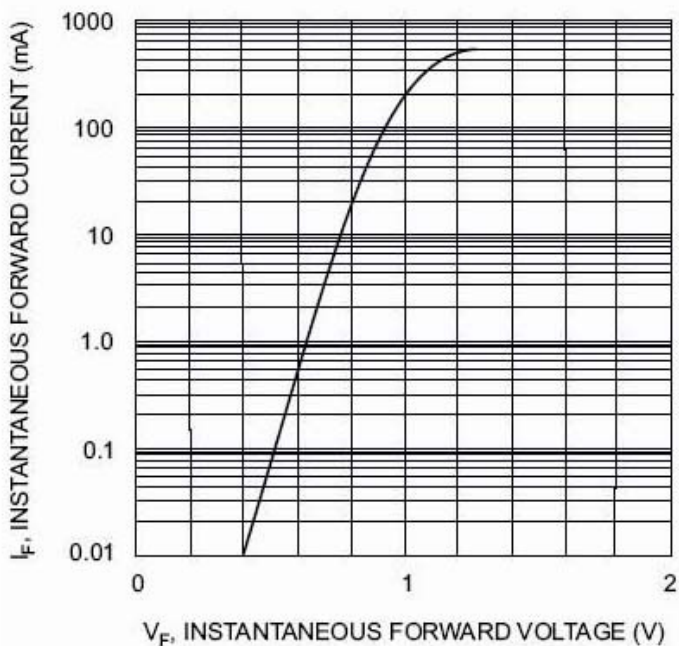


Fig. 1 Forward Characteristics

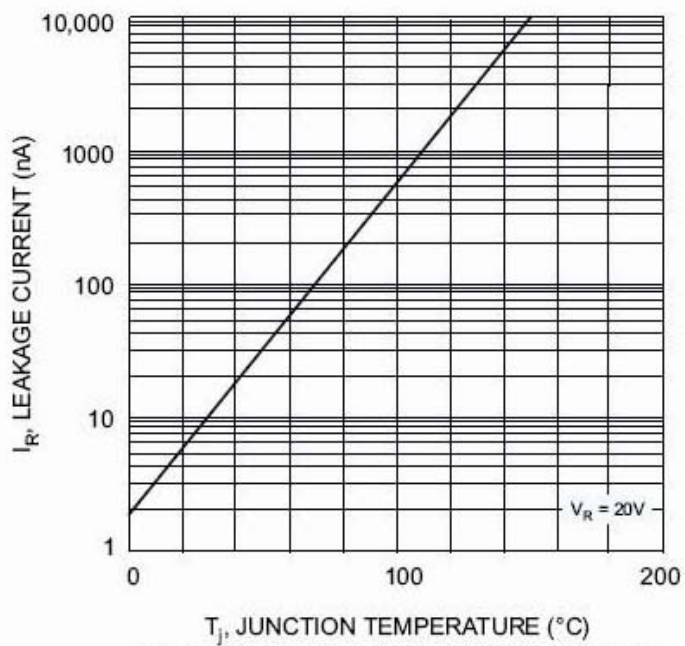


Fig. 2 Leakage Current vs Junction Temperature