

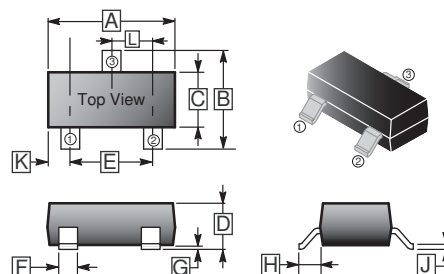
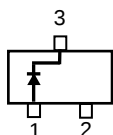
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

SOT-323

DESCRIPTION

- Fast switching speed
- For general purpose switching applications
- High conductance

MARKING: A2



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°C unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNIT
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage	V _{RRM}	75	V
Working Peak Reverse Voltage	V _{RWM}	75	V
DC Blocking Voltage	V _R	75	V
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	I _{FSM}	2.0	A
		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 (T_A = 25°C unless otherwise specified)

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	TEST CONDITION
Reverse Breakdown Voltage	V _{(BR)R}	75	-	V	I _F = 10μA
Reverse Voltage Leakage Current	I _R	-	1	μA	V _R = 75V
		-	25	nA	V _R = 20V
Forward Voltage	V _F	-	0.715	V	I _F = 1mA
		-	0.855	V	I _F = 10mA
		-	1.00	V	I _F = 50mA
		-	1.25	V	I _F = 150mA
Diode Capacitance	C _D	-	2	pF	V _R = 0V, f = 1MHz
Reverse Recovery Time	t _{RR}	-	4	nS	I _F = I _R = 10mA, I _{rr} = 0.1 x I _R R _L = 100Ω

RATINGS AND CHARACTERISTIC CURVES

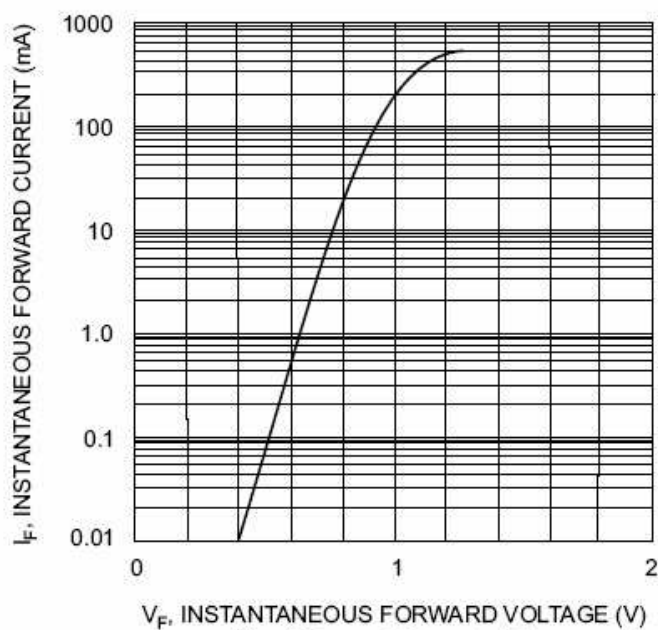


Fig. 1 Forward Characteristics

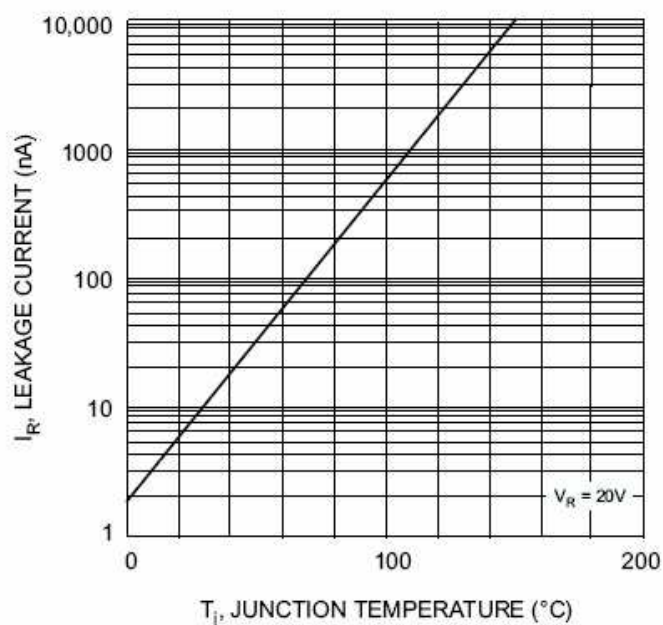


Fig. 2 Leakage Current vs Junction Temperature