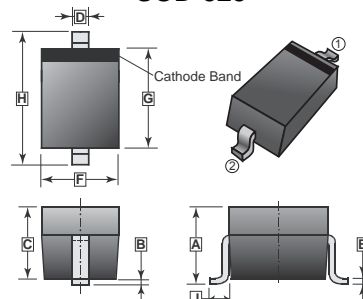


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

DESCRIPTION

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

SOD-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

MARKING

T6 or T4

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (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 _{RPM}		
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	°C / W
Junction, Storage Temperature	T _J , T _{STG}	125, -65 ~ +150	°C

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

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V _{F1}	-	-	0.715	V	I _F = 1mA
	V _{F2}	-	-	0.855		I _F = 10mA
	V _{F3}	-	-	1.0		I _F = 50mA
	V _{F4}	-	-	1.25		I _F = 150mA
Reverse Voltage Leakage Current	I _R	-	-	1	μA	V _R = 75V
		-	-	25	nA	V _R = 20V
Capacitance between terminals	C _T	-	-	2	pF	V _R = 0V, 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

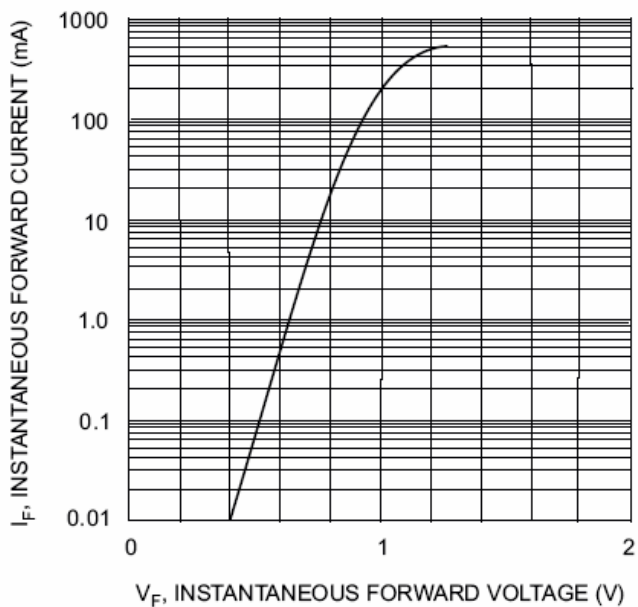


Fig. 1 Forward Characteristics

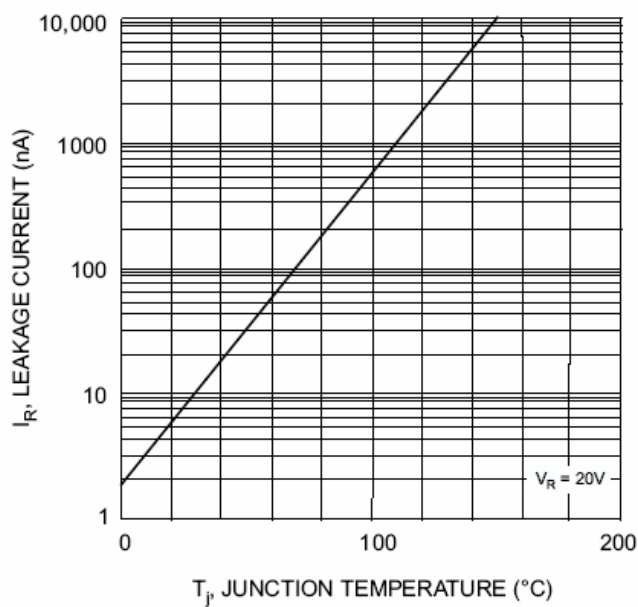


Fig. 2 Leakage Current vs Junction Temperature