

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

FEATURES

- Low leakage current applications.
- Medium speed switching times.
- Surface mount package ideally suited for automatic Insertion.

APPLICATIONS

- High speed switching application.

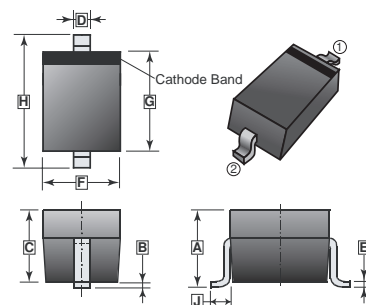
MARKING

JV

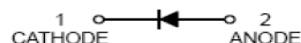
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

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



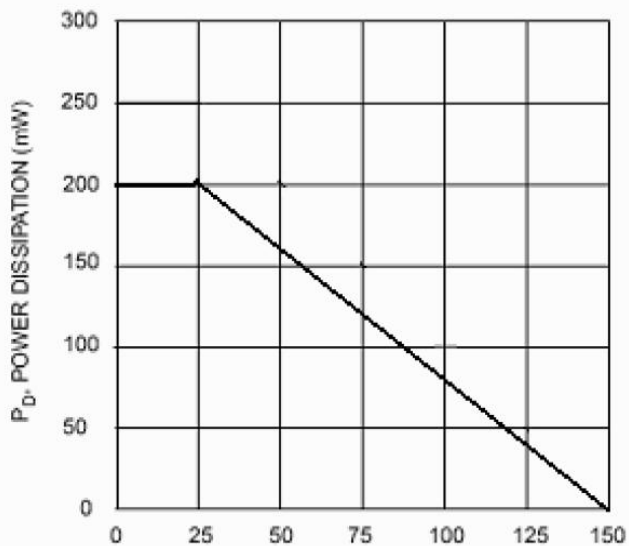
ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	85	V
Working Peak Reverse Voltage	V _{RWM}	85	V
DC Blocking Voltage	V _R	85	V
RMS Reverse Voltage	V _{R(RMS)}	60	V
Forward Continuous Current	I _{FM}	215	mA
Repetitive Peak Forward Current	I _{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	t=1.0μs	4
		t=1.0ms	1
		t=1.0s	0.5
Power Dissipation	P _D	200	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	500	°C / W
Junction, Storage Temperature	T _J , T _{STG}	150, -65~150	°C

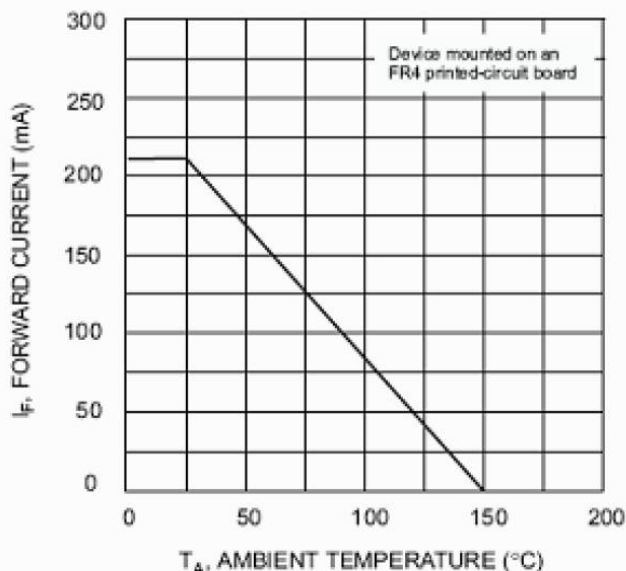
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{(BR)R}	85	-	-	V	I _R =100μA
Forward Voltage	V _F	-	-	0.9	V	I _F =1mA
		-	-	1		I _F =10mA
		-	-	1.1		I _F =50mA
		-	-	1.25		I _F =150mA
Reverse Leakage Current	I _R	-	-	5	nA	V _R =75V
		-	-	80		V _R =75V, T _J =150°C
Junction Capacitance	C _J	-	2	-	pF	V _R =0, f=1.0MHz
Reverse Recovery Time	T _{RR}	-	-	3	nS	I _F =I _R =10mA, I _{RR} =0.1xI _R

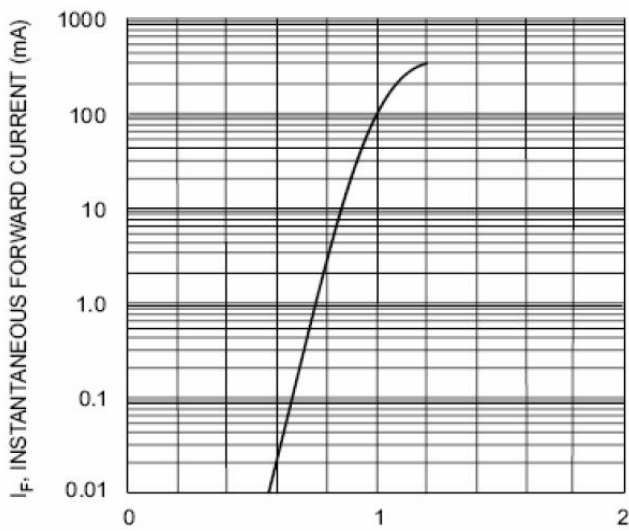
RATINGS AND CHARACTERISTIC CURVES



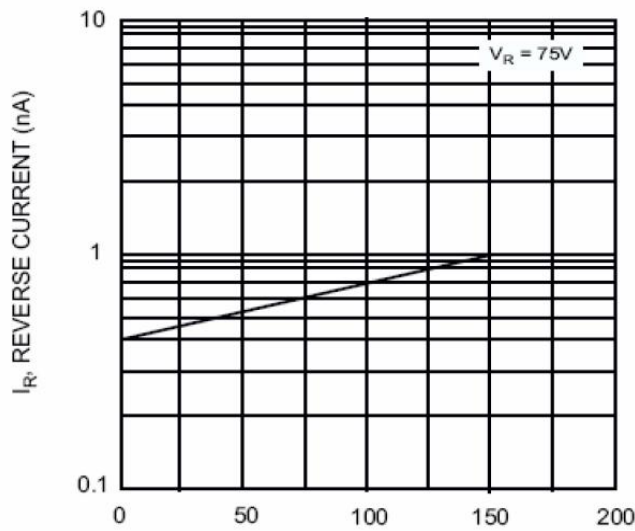
T_A, AMBIENT TEMPERATURE (°C)
Fig. 1 Power Derating Curve



T_A, AMBIENT TEMPERATURE (°C)
Fig. 2 Current Derating Curve



V_F, INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 3 Typical Forward Characteristics



T_A, AMBIENT TEMPERATURE (°C)
Fig. 4 Typical Reverse Characteristics