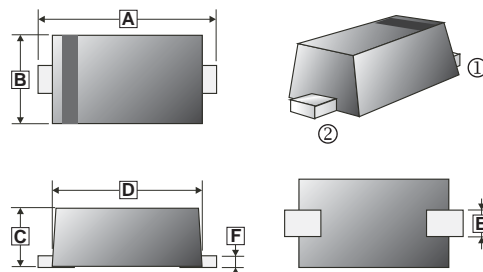


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Designed for Mounting on Small Surface
- High Speed
- High Mounting Capability, Strong Surge Withstand, High Reliability

SOD-323L



MECHANICAL DATE

- Case: SOD-323L Molded Plastic
- Terminals: Solder Plated, solderable MIL-STD-750, Method 2026
- Polarity: Indicated by Cathode Band
- Weight: 0.006 grams (approx.)
- Mounting Position: Any

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.30	2.70	D	1.60	1.80
B	1.15	1.35	E	0.25	0.40
C	0.80	1.00	F	0.05	0.25

MARKING

S4

5D

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323L	3K	7 inch

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

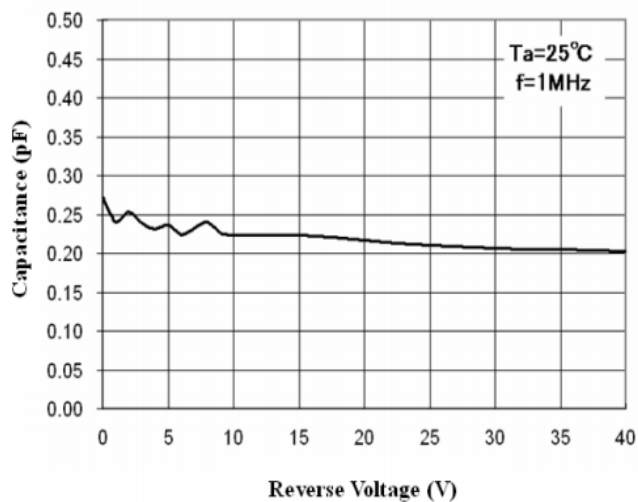
Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RM}	90	V
Maximum Continuous Reverse Voltage	V_R	80	V
Continuous Forward Current	I_O	150	mA
Peak Forward Surge Current, Pulse Width=1us	I_{FSM}	2	A
Repetitive Peak Forward Current	I_{FRM}	500	mA
Maximum Power Dissipation	P_D	200	mW
Typical Thermal Resistance	$R_{\theta JC}$	245	$^{\circ}\text{C} / \text{W}$
Operating Temperature, Storage Temperature	T_J, T_{STG}	150, -65~150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

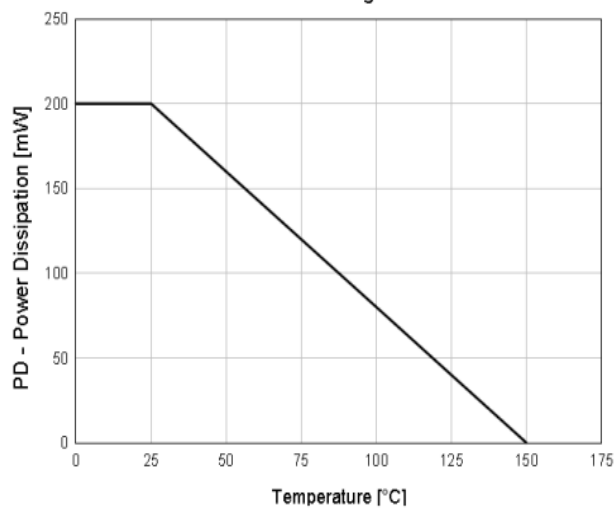
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V_F	-	0.93	1.2	V	$I_F=100\text{mA}$
Reverse Voltage Leakage Current	I_R	-	0.02	0.1	μA	$V_R=80\text{V}$
Capacitance Between Terminals	C_T	-	-	4	pF	$V_R=0.5\text{V}, f=1\text{MHZ}$
Reverse Recovery Time	T_{RR}	-	-	4	nS	$V_R=6\text{V}, I_F=10\text{mA}, R_L=100\Omega$

CHARACTERISTIC CURVES

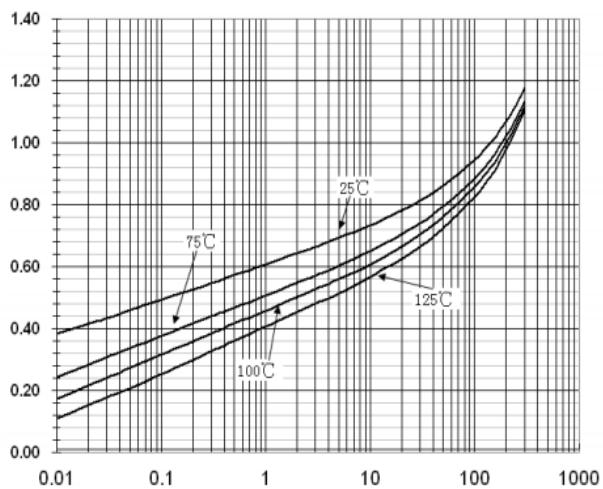
Total Capacitance



Power Derating Curve



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage

