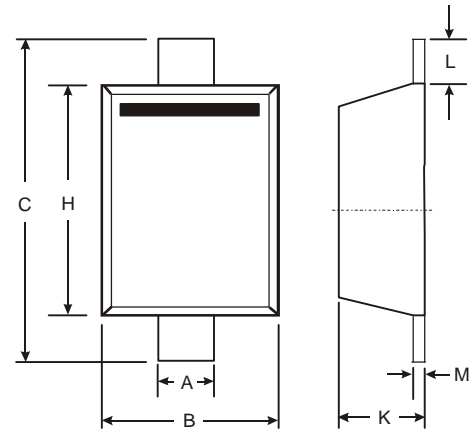


Features

- Extremely Fast Switching Speed
- Very Low V_F : 0.325V (Typ) at $I_F = 1\text{mA}$
- Surface mount package ideally suited for automatic insertion
- In compliance with EU RoHS 2002/95/EC directives

Mechanical Data

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx Weight : 0.0014 gram
- Marking : 51



SOD-523		
Dim	Min	Max
A	0.25	0.35
B	0.70	0.90
C	1.50	1.70
H	1.10	1.30
K	0.55	0.65
L	0.10	0.30
M	0.10	0.12
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Value	Units			
Maximum Reverse DC Voltage	V_{RRM}	4.0	V			
Peak Reverse Voltage	V_R	3.0	V			
Maximum Forward Current	$I_{F(AV)}$	0.3	A			
Power Dissipation ⁽¹⁾	P_{TOT}	0.2	W			
Peak Forward Surge Current at $t=8.3\text{ms}$	I_{FSM}	5.00	mA			
Junction Temperature	T_J	-55 to +125	$^\circ\text{C}$			
Storage Temperature	T_{STG}	-55 to +125	$^\circ\text{C}$			
PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Leakage Current	I_R	$V_R=30\text{V}$	-	-	0.5	μA
Forward Voltage	V_F	$I_F=1\text{mA}$	-	-	0.37	V
Total Capacitance	C_T	$V_R=1\text{V}, F=1\text{MHz}$	-	3	5	pF

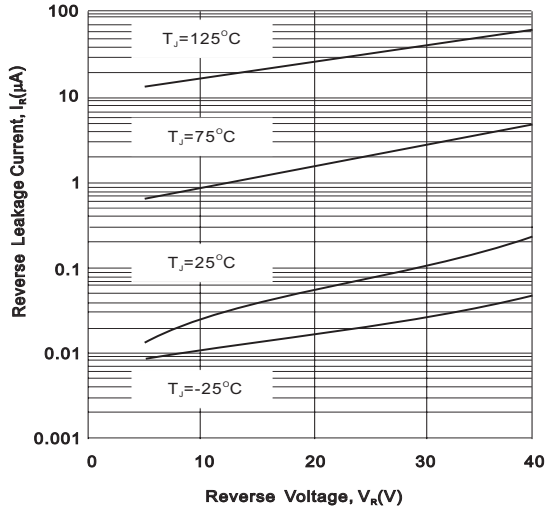


Fig.1-Typical Reverse Leakage

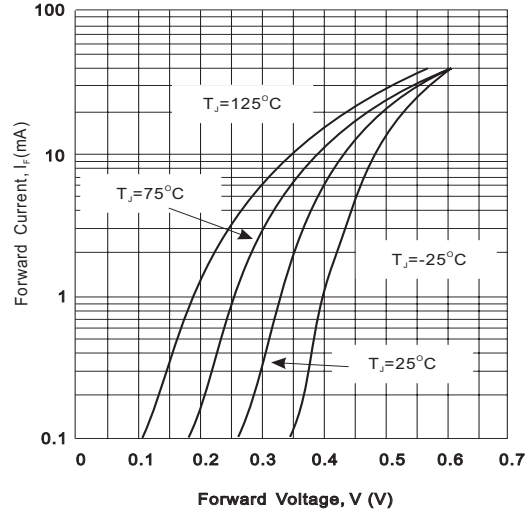


Fig.2-Typical Forward Voltage

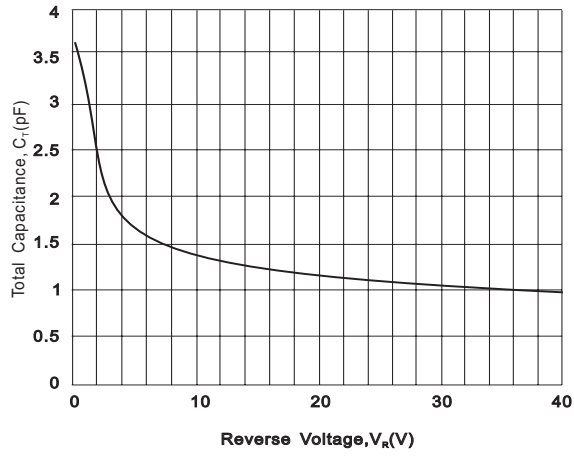


Fig.3-Typical Capacitance