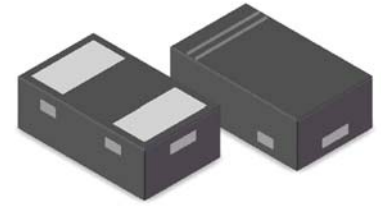


Features

- High Switching Speed: $t_{rr} \leq 4 \text{ ns}$
- Small Surface Mounting Type(DFN1006)
- RoHS Compliant
- Matte Tin(Sn) Lead Finish
- Green EMC
- Band Indicates Cathode



SOD-882

Applications

- High-Speed Switching
- General-Purpose Switching

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Max.	Unit
DC Reverse Voltage	V_R	75	V
Power Dissipation	P_D	125	mW
Average Rectified Current	I_O	150	mA
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Non-Repetitive Peak Forward Surge Current (Pulse Width=1 μ s)	I_{FSM}	2	A
Storage Temperature Range	T_{STG}	-55 To +125	$^\circ\text{C}$
Operating Junction Temperature Range	T_J	+125	$^\circ\text{C}$

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Max.	Unit
Breakdown Voltage	B_V	$I_R=100\mu\text{A}$	100	-	V
		$I_R=5\mu\text{A}$	75	-	
Reverse Leakage Current	I_R	$V_R=20\text{V}$	-	25	nA
		$V_R=75\text{V}$	-	5	μA
Forward Voltage	V_F	$I_F=10\text{mA}$	-	1	V
Reverse Recovery Time	T_{RR}	$I_F=10\text{mA}, I_R=60\text{mA}, R_L=100\Omega$ $I_{RR}=1\text{mA}$	-	4	nS
Capacitance	C	$V_R=0\text{V}, f=1\text{MHZ}$	-	4	pF

Typical Electrical Characteristic Curves

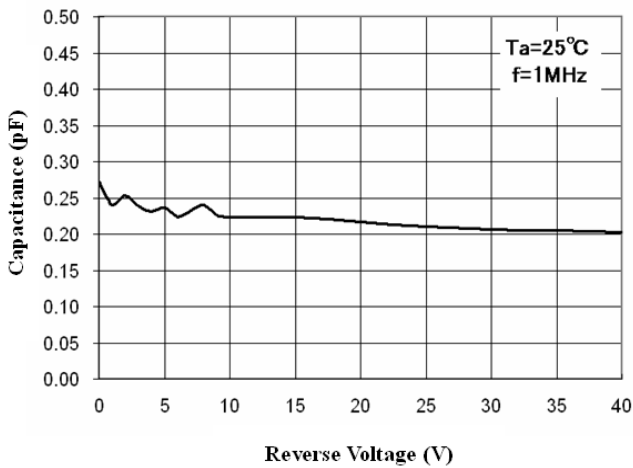


Figure 1. Total Capacitance

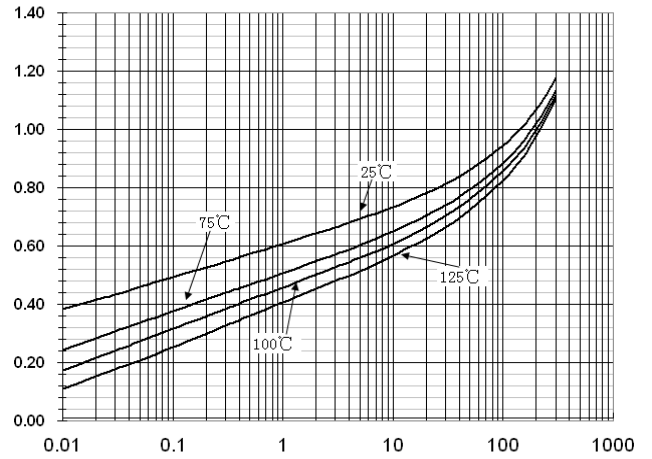
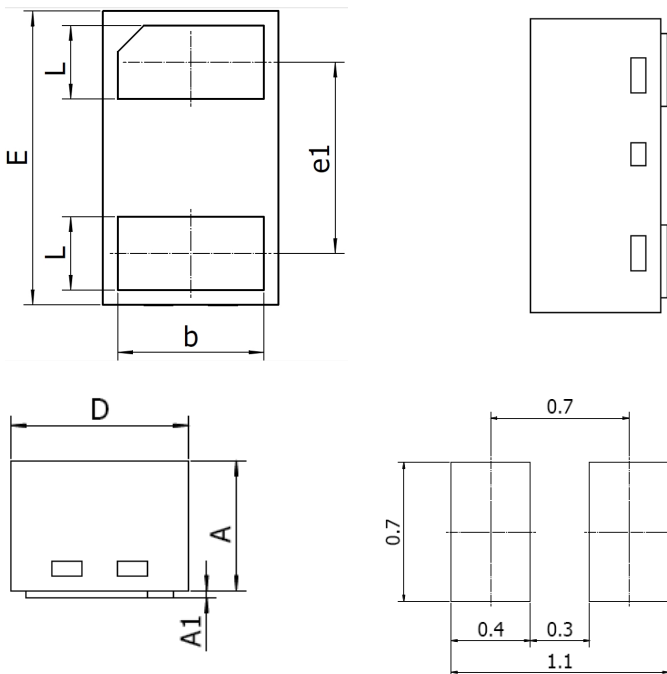


Figure 2. Forward Voltage vs. Ambient Temperature

Package Outline Dimensions SOD-882



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.46	0.50	0.018	0.020
A1	---	0.03	---	0.001
b	0.45	0.55	0.018	0.022
D	0.55	0.65	0.022	0.026
E	0.95	1.05	0.037	0.041
e1	Typ. 0.65		Typ. 0.026	
L	0.20	0.30	0.008	0.012

Typical Soldering Pattern(mm):