

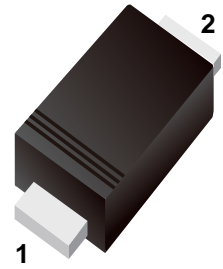
Schottky Barrier Diode

APPLICATIONS

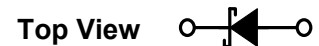
- Rectification
- Protection against reverse connection of battery

FEATURES

- Forward Voltage : $V_F=0.49V$ (TYP.)
- Forward Current : $I_{F(AV)}=1A$
- Repetitive Peak Reverse Voltage : $V_{RM}=40V$



Simplified outline(SOD-123FL)



ABSOLUTE MAXIMUM RATINGS Ta=25°C

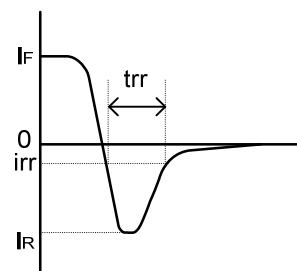
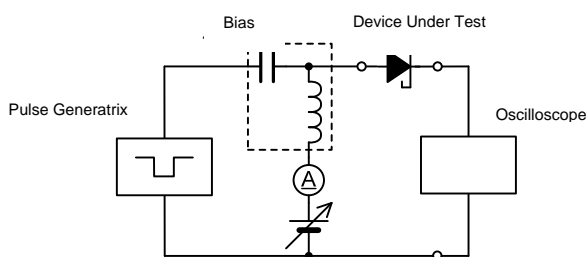
PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V_{RM}	40	V
Reverse Voltage (DC)	V_R	40	V
Forward Current (Average)	$I_{F(AV)}$	1	A
Non Continuous Forward Surge Current *1	I_{FSM}	10	A
Junction Temperature	T_J	125	
Storage Temperature Range	T_{stg}	-55 ~ +150	

*1 : Non continuous high amplitude 60Hz half-sine wave.

ELECTRICAL CHARACTERISTICS Ta=25

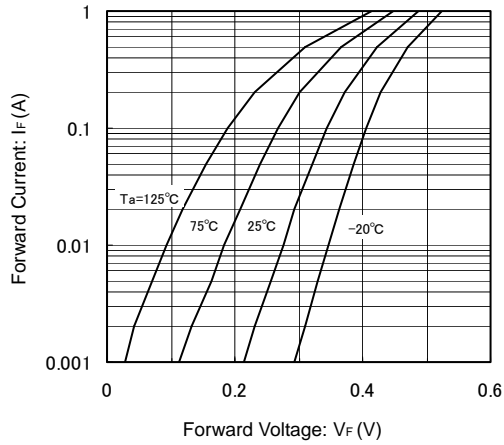
PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNIT
			MIN.	TYP.	MAX.	
Forward Voltage	V_{F1}	$I_F=100mA$	-	0.34	-	V
	V_{F2}	$I_F=1A$	-	0.49	0.54	V
Reverse Current	I_R	$V_R=40V$	-	4	200	μA
Inter-Terminal Capacity	C_t	$V_R=10V$, $f=1MHz$	-	35	-	pF
Reverse Recovery Time *2	t_{rr}	$I_F=I_R=10mA$, $i_{rr}=1mA$, $R_L=100$	-	25	-	ns

*2 : t_{rr} measurement circuit

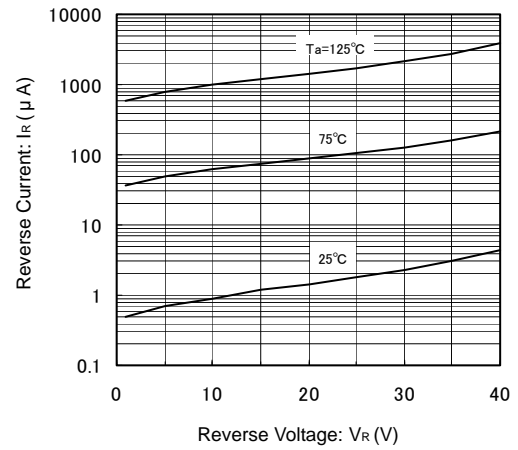


■ TYPICAL PERFORMANCE CHARACTERISTICS

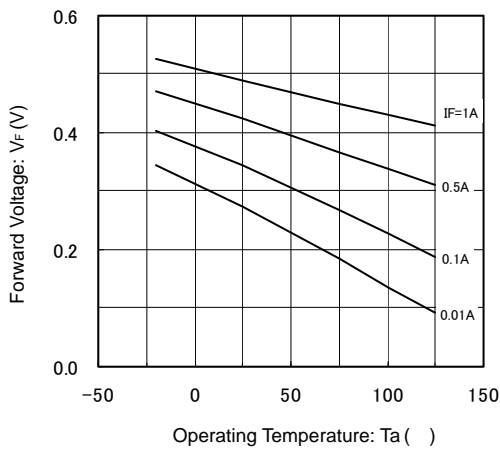
(1) Forward Current vs. Forward Voltage



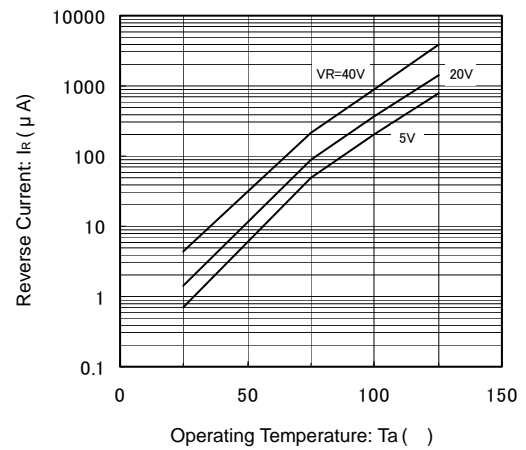
(2) Reverse Current vs. Reverse Voltage



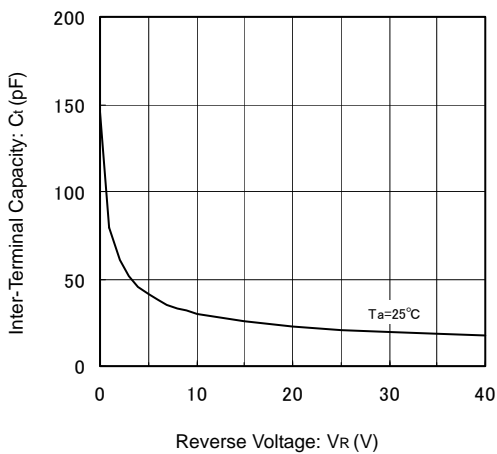
(3) Forward Voltage vs. Operating Temperature



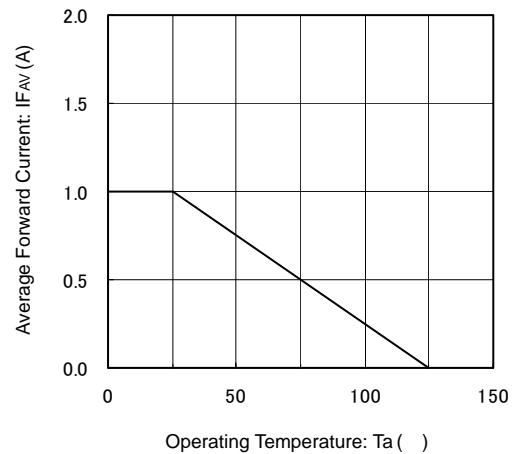
(4) Reverse Current vs. Operating Temperature



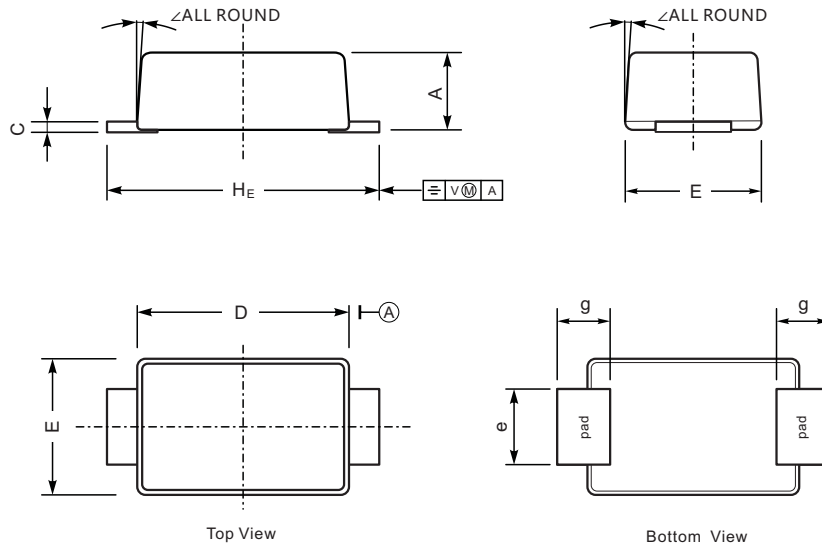
(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Average Forward Current vs. Operating Temperature

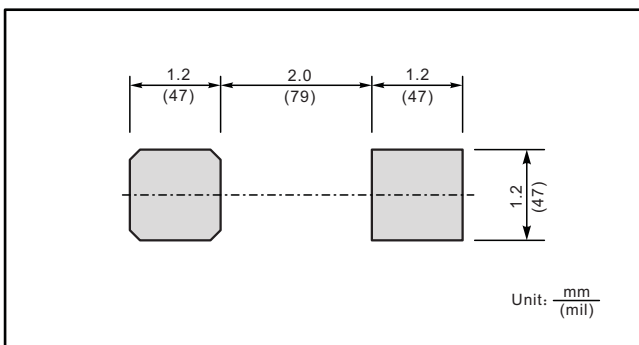


■ SOD-123FL



UNIT		A	C	D	E	e	g	H_E	\angle
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

■ The recommended mounting pad size



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