

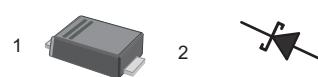
Trench MOS Barrier Schottky

Features

- Low power loss, high efficiency
- High current capability
- low forward voltage drop
- For use in low voltage

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



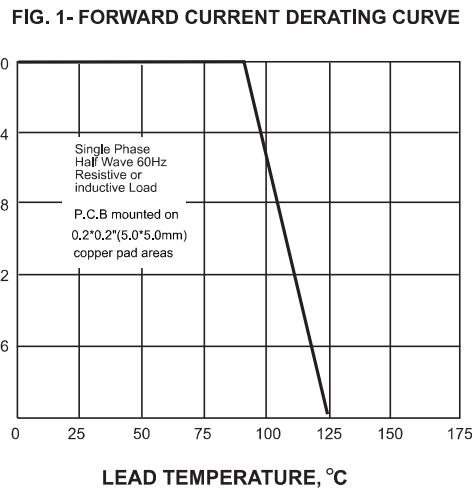
Weight: 17mg , 0.0006 oz
 Simplified outline SOD-123FL and symbol

Maximum Ratings and Electrical characteristics

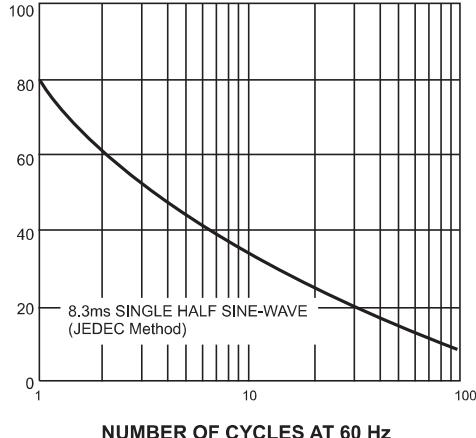
Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	Spec. Limit			Unit
		Min.	Typ.	Max.	
Max. Repetitive Peak Reverse Voltage @0.5mA	V _{RRM}	45	50		V
Max. Average Forward Rectified Current	I _{F(AV)}			3	A
Forward Voltage Drop	I _F =1A I _F =2A I _F =3A	V _F	0.340 0.380 0.410	0.430	V
Max. Reverse Current at V _{RRM} @45V	I _R		80	200	μA
Operating Temperature Range	T _J	-55		+125	°C
Storage Temperature Range	T _{STG}	-55		+150	°C

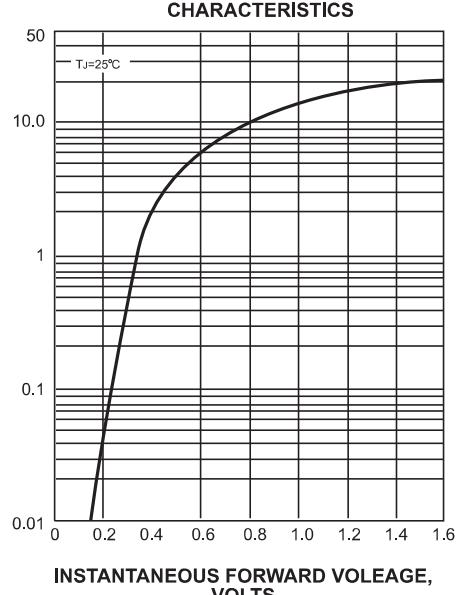
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



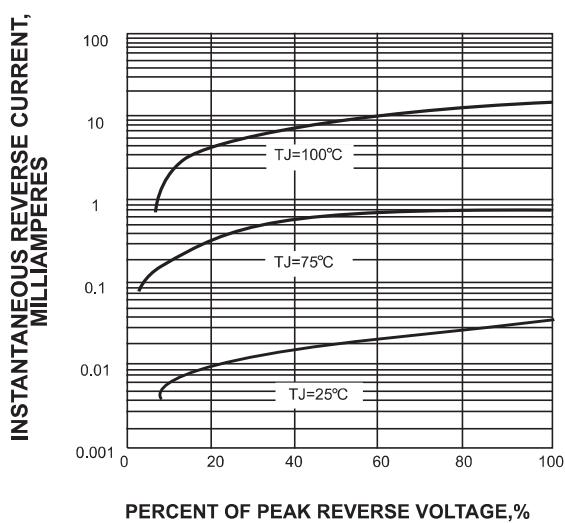
PEAK FORWARD SURGE CURRENT,
AMPERES



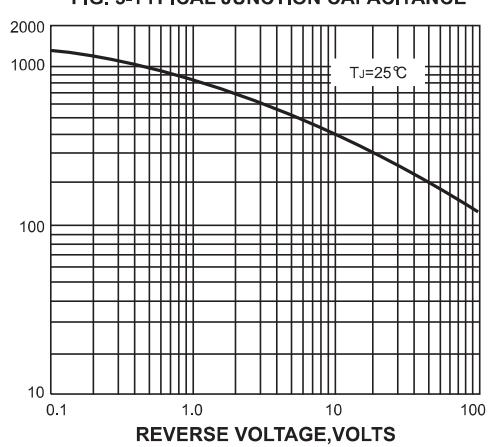
INSTANTANEOUS FORWARD
CURRENT,AMPERES



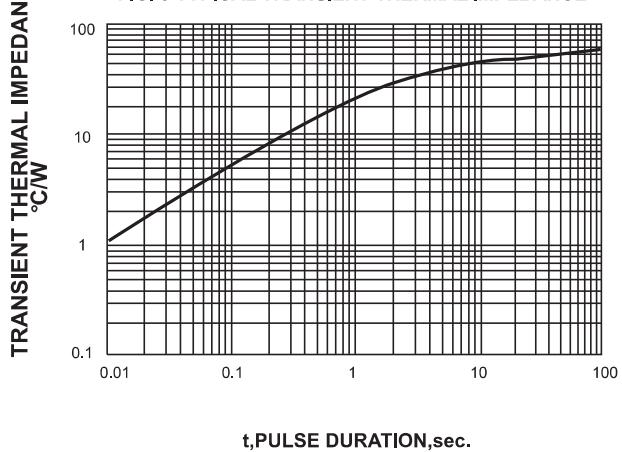
INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



JUNCTION CAPACITANCE, pF



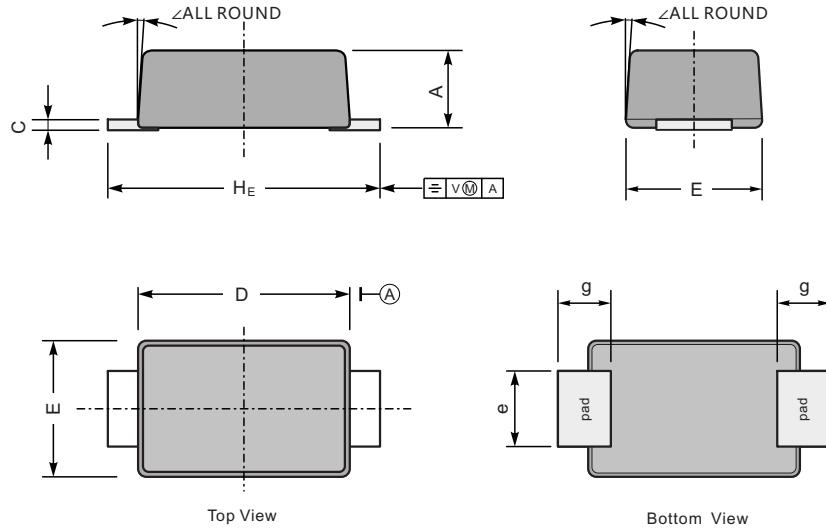
TRANSIENT THERMAL IMPEDANCE,
°C/W



PACKAGE OUTLINE

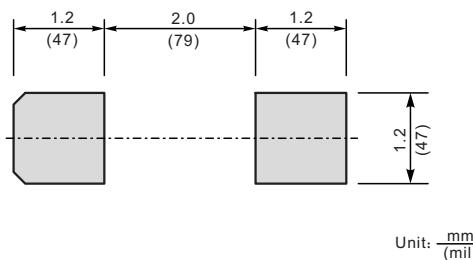
Plastic surface mounted package; 2 leads

SOD123FL



UNIT		A	C	D	E	e	g	H _E	<
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	7°
	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size



Unit: $\frac{\text{mm}}{(\text{mil})}$