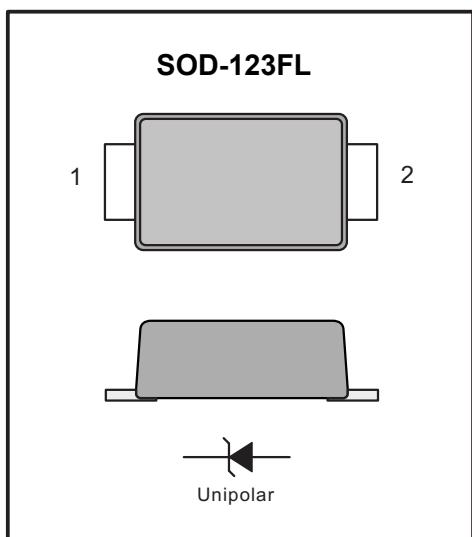


**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**
**PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode


**Features**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction,majority carrier conduction
- ◆ Low power loss,high efficiency
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:  
250 °C/10 seconds at terminals

**Mechanical Data**

- ◆ Case': JEDEC SOD-123FL molded plastic body
- ◆ Terminals': Solderable per MIL-STD-750,Method 2026 Polarity': Color band denotes cathode end
- ◆ Mounting Position': Any
- ◆ Weight : 0.0007 ounce, 0.02 grams

**Maximum Ratings And Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified.

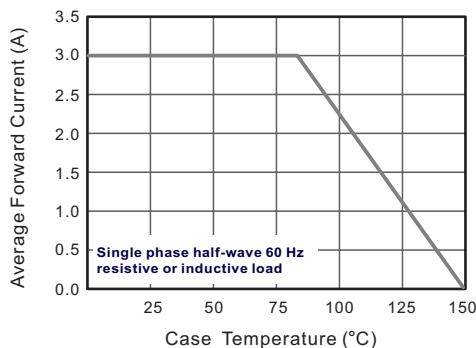
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	DSK32	DSK34	DSK35	DSK36	DSK38	DSK310	DSK315	DSK320	UNITS
Marking Code		K32	K34	K35	K36	K38	K310	K315	K320	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	40	50	60	80	100	150	200	V
Maximum RMS voltage	V <sub>RMS</sub>	14	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	40	50	60	80	100	150	200	V
Maximum average forward rectified current at TL(see fig.1)	I <sub>(AV)</sub>	3.0							A	
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I <sub>FSM</sub>	80							A	
Maximum instantaneous forward voltage at 3.0A	V <sub>F</sub>	0.52	0.70	0.70		0.85				V
Maximum DC reverse current    T <sub>A</sub> =25°C at rated DC blocking voltage    T <sub>A</sub> =125°C	I <sub>R</sub>	0.5 20.0							10.0	mA
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	250		160						pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>		80.0							°C/W
Operating junction temperature range	T <sub>J</sub>		-55 to +125							°C
Storage temperature range	T <sub>STG</sub>		-55 to +150							°C

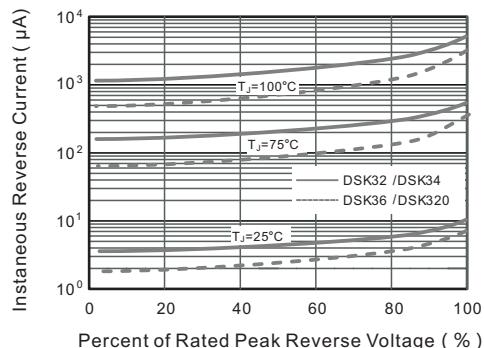
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

## Typical Characteristics

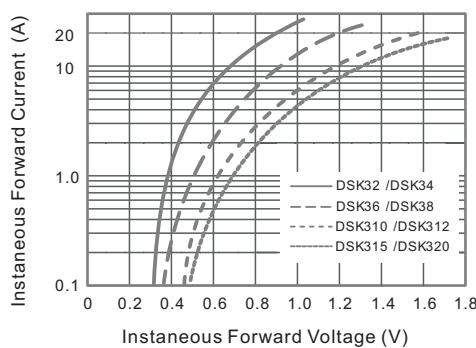
**Fig.1 Forward Current Derating Curve**



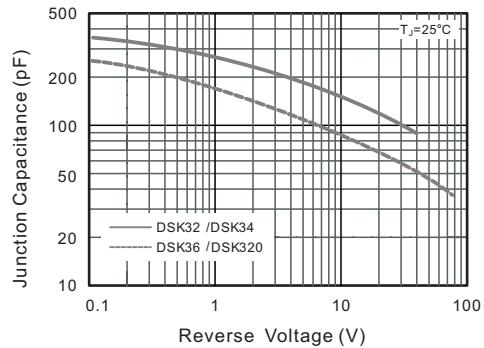
**Fig.2 Typical Reverse Characteristics**



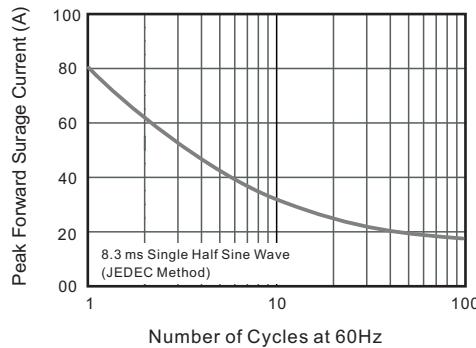
**Fig.3 Typical Forward Characteristic**



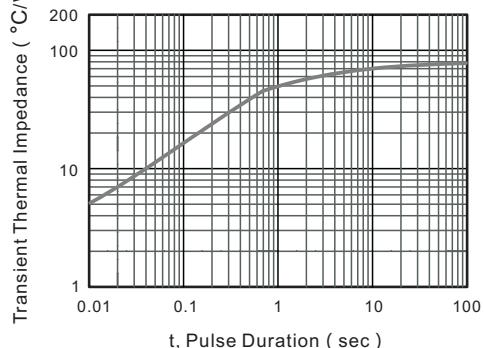
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



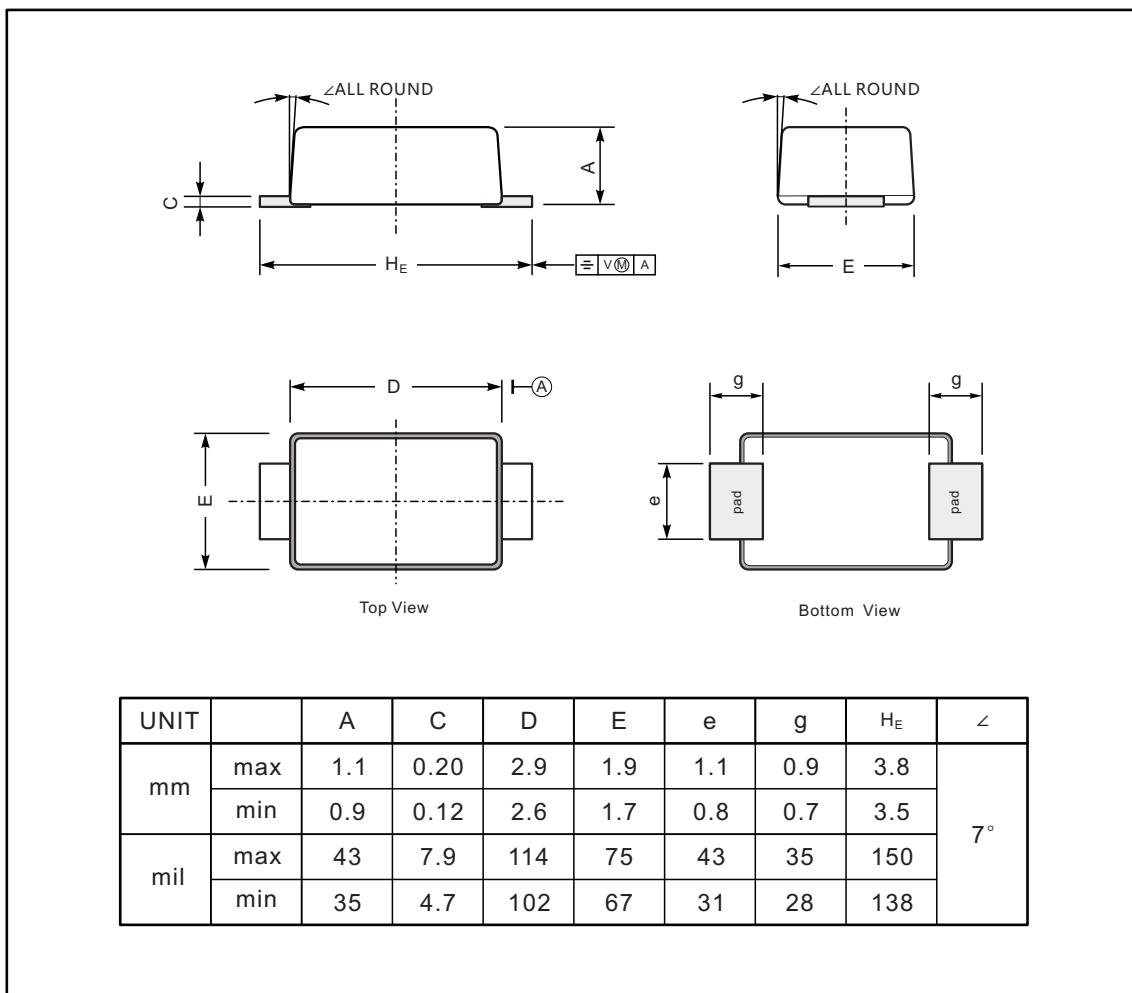
**Fig.6- Typical Transient Thermal Impedance**



## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



### The recommended mounting pad size

