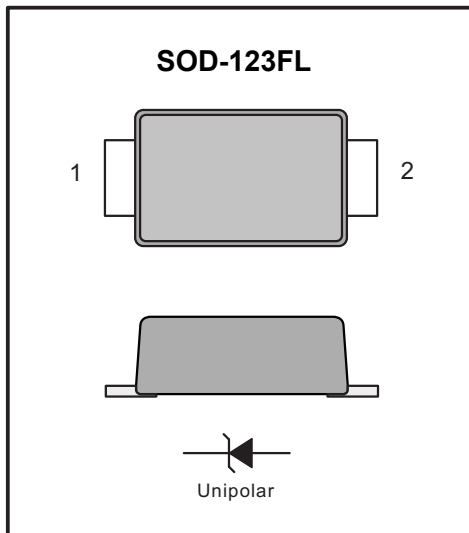


## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### 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	
		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 on rated 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 at rated DC blocking voltage	I <sub>R</sub>	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

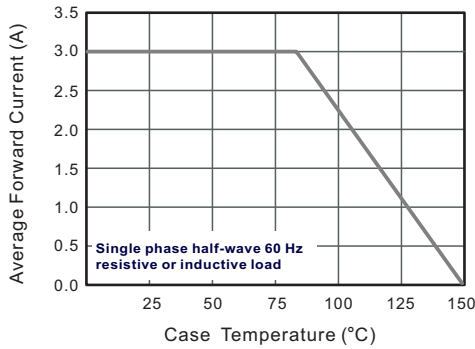


Fig.2 Typical Reverse Characteristics

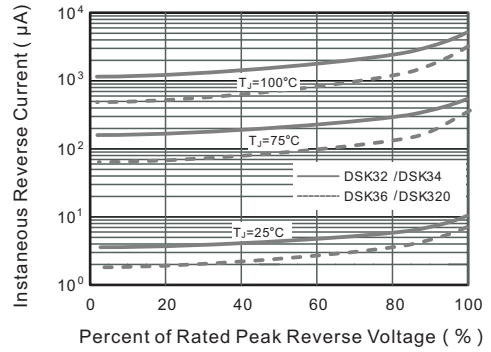


Fig.3 Typical Forward Characteristic

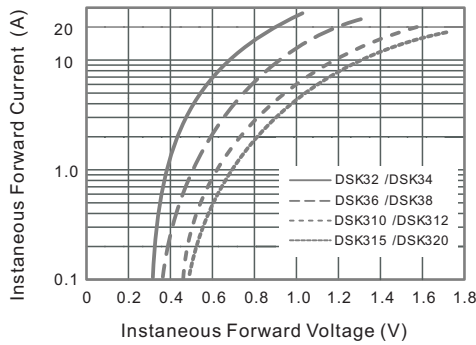


Fig.4 Typical Junction Capacitance

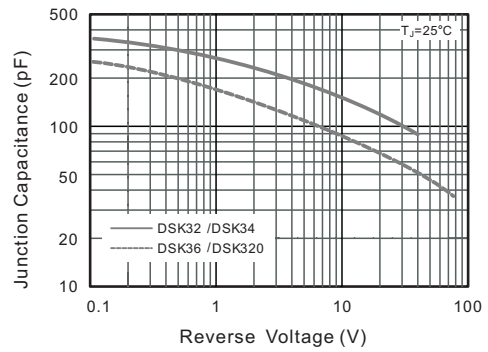


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

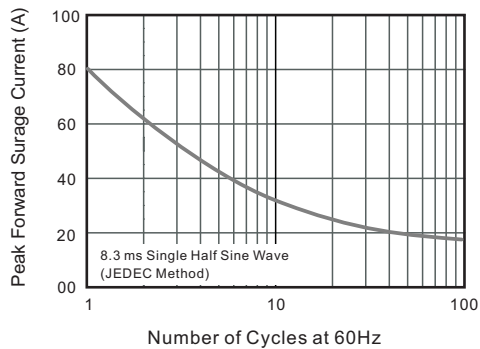
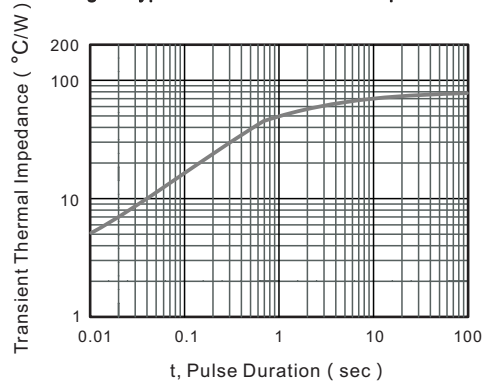


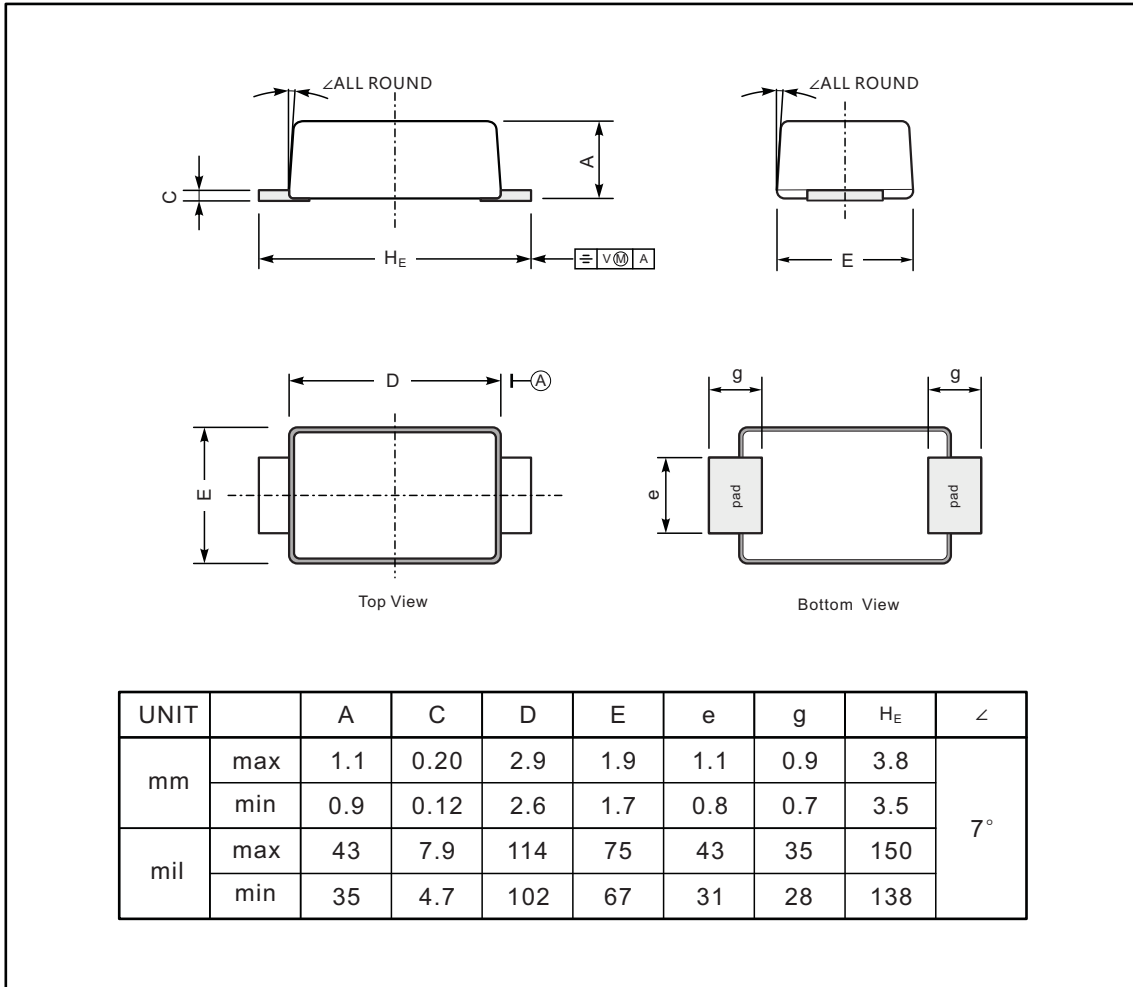
Fig.6- Typical Transient Thermal Impedance



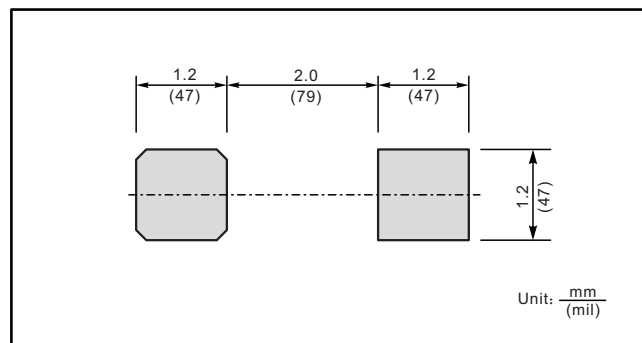
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



### The recommended mounting pad size



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Schottky Diodes & Rectifiers](#) category:*

*Click to view products by [TWGMC](#) manufacturer:*

Other Similar products are found below :

[CUS06\(TE85L,Q,M\)](#) [MA4E2039](#) [D1FH3-5063](#) [MBR0530L-TP](#) [MBR10100CT-BP](#) [MBR30H100MFST1G](#) [MMBD301M3T5G](#) [PMAD1103-LF](#) [PMAD1108-LF](#) [RB160M-50TR](#) [RB520S-30](#) [RB551V-30](#) [DD350N18K](#) [DZ435N40K](#) [DZ600N16K](#) [BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#) [IDL02G65C5XUMA1](#) [NSR05F40QNXT5G](#) [NSVR05F40NXT5G](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SB1003M3-TL-W](#) [SBAT54CWT1G](#) [SBM30-03-TR-E](#) [SBS818-TL-E](#) [SK32A-LTP](#) [SK33A-TP](#) [SK34A-TP](#) [SK34B-TP](#) [SMD1200PL-TP](#) [ACDBN160-HF](#) [SS3003CH-TL-E](#) [STPS30S45CW](#) [PDS3100Q-7](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM\)](#) [MBR1240MFST1G](#) [MBRB30H30CT-1G](#) [BAS28E6433HTMA1](#) [BAS 70-02L E6327](#) [HSB123JTR-E](#) [JANTX1N5712-1](#) [VS-STPS40L45CW-N3](#) [DD350N12K](#) [SB007-03C-TB-E](#) [SB10015M-TL-E](#) [SB1003M3-TL-E](#) [SK110-LTP](#)