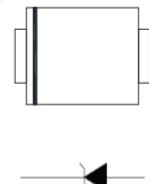


Features

- Low profile package
- For surface mounted applications in order to optimize board space
- Glass passivated junction
- 400 Watts peak pulse power capability with a 10/1000 μ s waveform
- Built-in strain relief
- Excellent clamping capability
- Fast response me: typically less than 1.0ps from 0 Volts to VBR min for unidirectional types
- Low inductance



SOD-123W

Maximum Ratings and Characteristics

Ratings at 25° ambient temperature unless otherwise specified

Rating	Symbol	Value	Units
Peak pulse power dissipation at 10/1000us waveform (Note1, Note2)	P_{PP}	400	W
Operating junction	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Typical thermal resistance junction to ambient	$R_{\theta JA}$	220	°C/W

Notes :

1. Non-repetitive current pulse.
2. Pulse Power Dissipation is 370W min,400W typical @10/1000us.

Part Number	Reverse Stand off Voltage VR	Breakdown Voltage VBR (Volts) @ IT		Test Current IT	Maximum Clamping Voltage VC @ Ipp	Maximum Peak Pulse Current Ipp	Maximum Reverse Leakage IR @ VR
UNI	(V)	MIN	MAX	(mA)	(V)	(A)	(μ A)
PTVS3V3S1UR,115-JSM	3.3	4.2	6.5	10	7.3	54.8	200

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Figure 1. TVS Transients Clamping Waveform

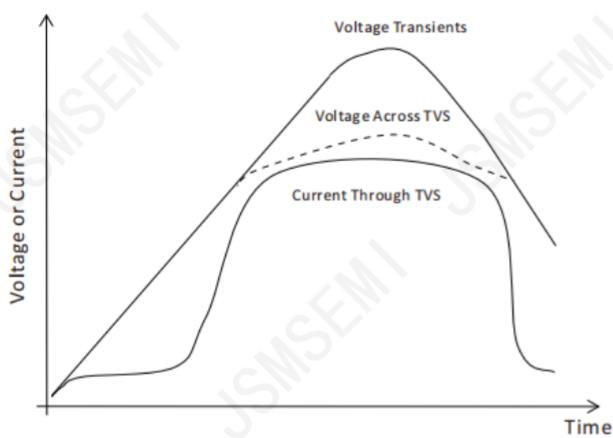


Figure 2. Peak Pulse Power Rang Curve

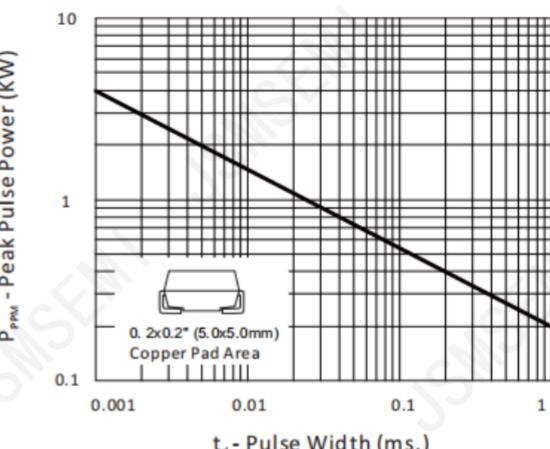


Figure 3. Pulse Derating Curve

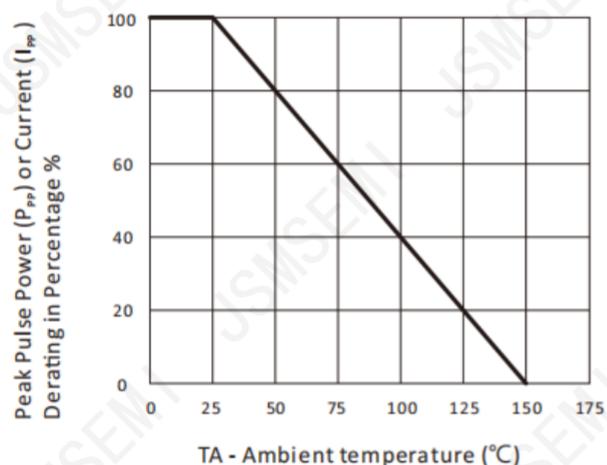


Figure 4. Pulse Waveform

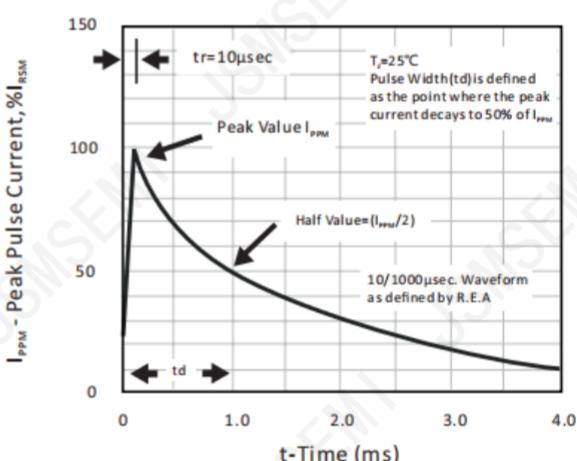
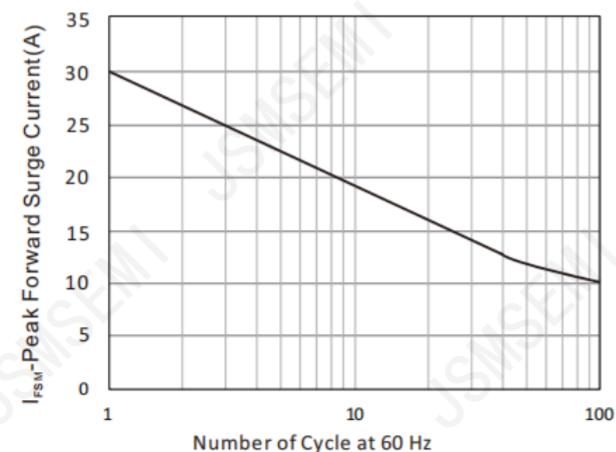
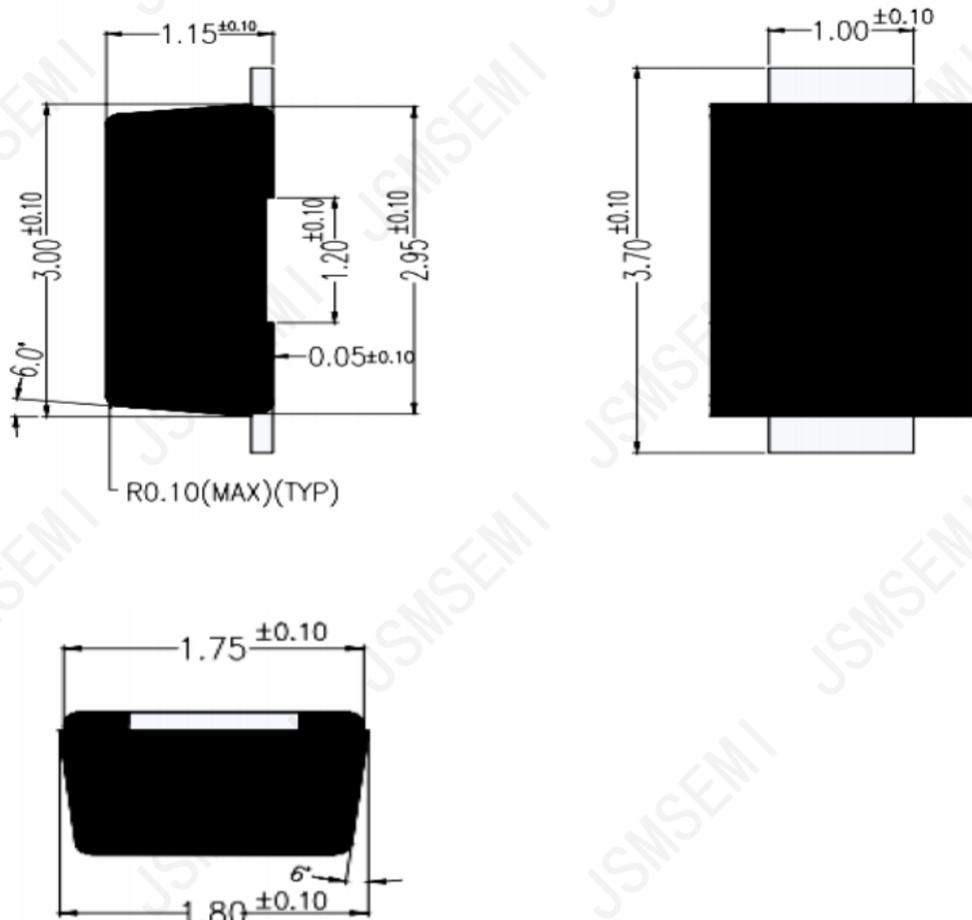


Figure 5. Maximum Non-Repetitive Peak Forward Surge Current Uni-Directional Only



Dimension (SOD-123W)



Unit: inch(mm)

Revision History

Rev.	Change	Date
V1.0	Initial version	6/27/2021

Important Notice

JSMSEMI Semiconductor (JSMSEMI) PRODUCTS ARE NEITHER DESIGNED NOR INTENDED FOR USE IN MILITARY AND/OR AEROSPACE, AUTOMOTIVE OR MEDICAL DEVICES OR SYSTEMS UNLESS THE SPECIFIC JSMSEMI PRODUCTS ARE SPECIFICALLY DESIGNATED BY JSMSEMI FOR SUCH USE. BUYERS ACKNOWLEDGE AND AGREE THAT ANY SUCH USE OF JSMSEMI PRODUCTS WHICH JSMSEMI HAS NOT DESIGNATED FOR USE IN MILITARY AND/OR AEROSPACE, AUTOMOTIVE OR MEDICAL DEVICES OR SYSTEMS IS SOLELY AT THE BUYER'S RISK.

JSMSEMI assumes no liability for application assistance or customer product design. Customers are responsible for their products and applications using JSMSEMI products.

Resale of JSMSEMI products or services with statements different from or beyond the parameters stated by JSMSEMI for that product or service voids all express and any implied warranties for the associated JSMSEMI product or service. JSMSEMI is not responsible or liable for any such statements.

JSMSEMI All Rights Reserved. Information and data in this document are owned by JSMSEMI wholly and may not be edited, reproduced, or redistributed in any way without the express written consent from JSMSEMI.

Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. When designing equipment, refer to the "Delivery Specification" for the JSMSEMI product that you intend to use.

For additional information please contact Kevin@jsmsemi.com or visit www.jsmsemi.com