

## Features

- General rectification
- Low  $V_F$ ; Low  $I_R$
- High reliability

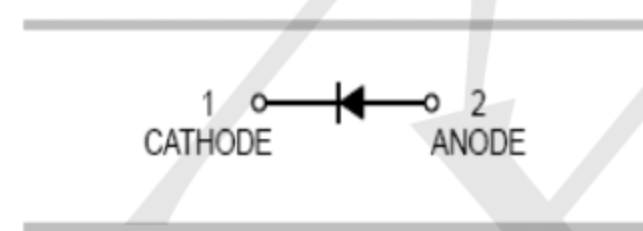
## Applications

- surface mount schottky barrier rectifier

## Ordering Information

- Shipping Qty:3000/7inch Tape& Reel

SOD323



## Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	1N5817WS	1N5819WS	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	40	V
RMS Reverse Voltage	$V_{RMS}$	21	28	V
Maximum Average Forward Output Current	$I_{F(AV)}$	1		A
Peak Forward Surge Current, 8.3ms Single Half-sine-wave	$I_{FSM}$	10		A

## Thermal Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	1N5817WS	1N5819WS	Units
Power Dissipation	$P_D$	250		mW
Typical Thermal Resistance per leg	$R_{\theta JA}^*$	400		$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	$T_J$	125		$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150		$^\circ\text{C}$

\* Part mounted on FR-4 board with recommended pad layout

## Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Units
Forward Voltage	$V_F^*$	$I_F=1\text{A}$ <b>1N5817WS</b>	-	-	0.55	V
		$I_F=1\text{A}$ <b>1N5819WS</b>			0.60	
		$I_F=3\text{A}$ <b>1N5817WS</b>			0.875	
		$I_F=3\text{A}$ <b>1N5819WS</b>	-	-	0.90	
Maximum Peak Reverse Current	$I_R^{**}$	$V_R=30\text{V}$ <b>1N5817WS</b> $V_R=40\text{V}$ <b>1N5819WS</b>	-	-	1	mA
Capacitance Between Terminals	$C_T$	$V_R=4\text{V}, f=1\text{MHz}$	-	39	120	pF

**Typical Electrical Characteristic Curves**

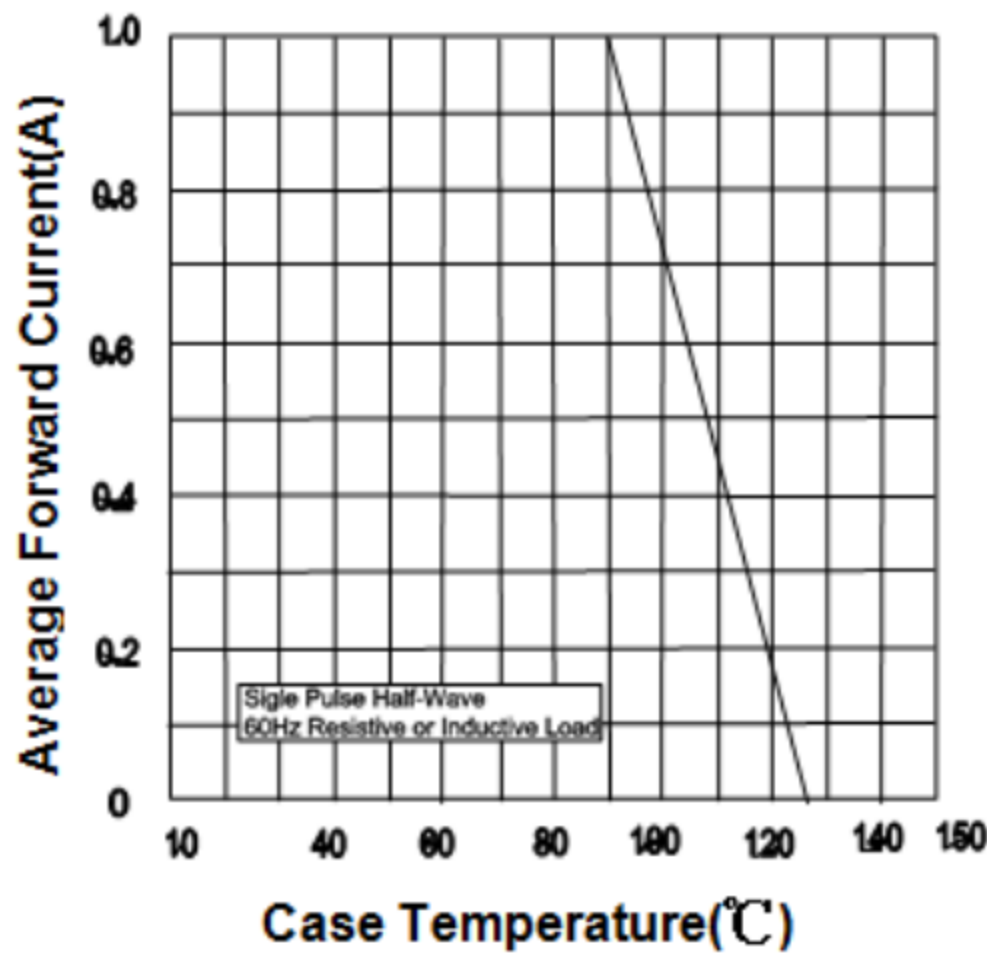


Fig.1 Forward Current Derating Curve

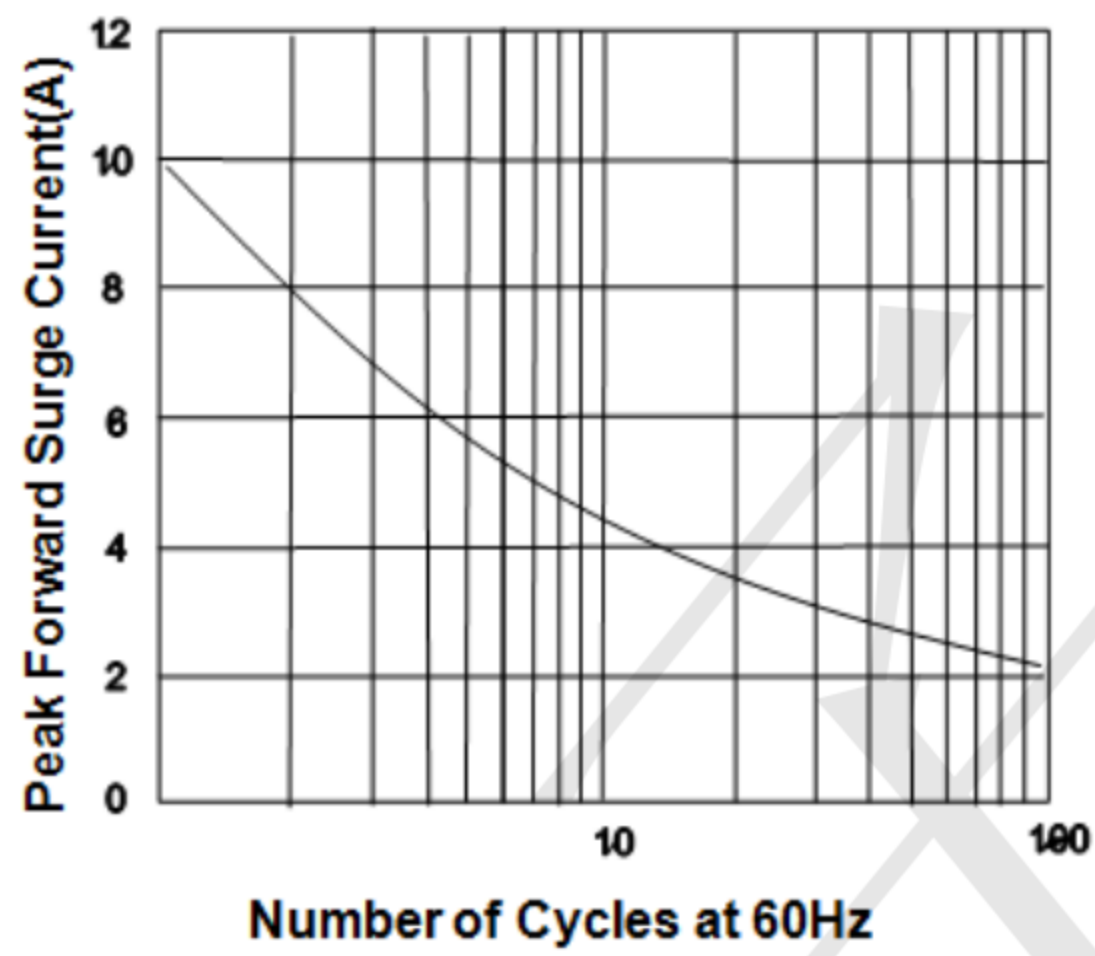


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

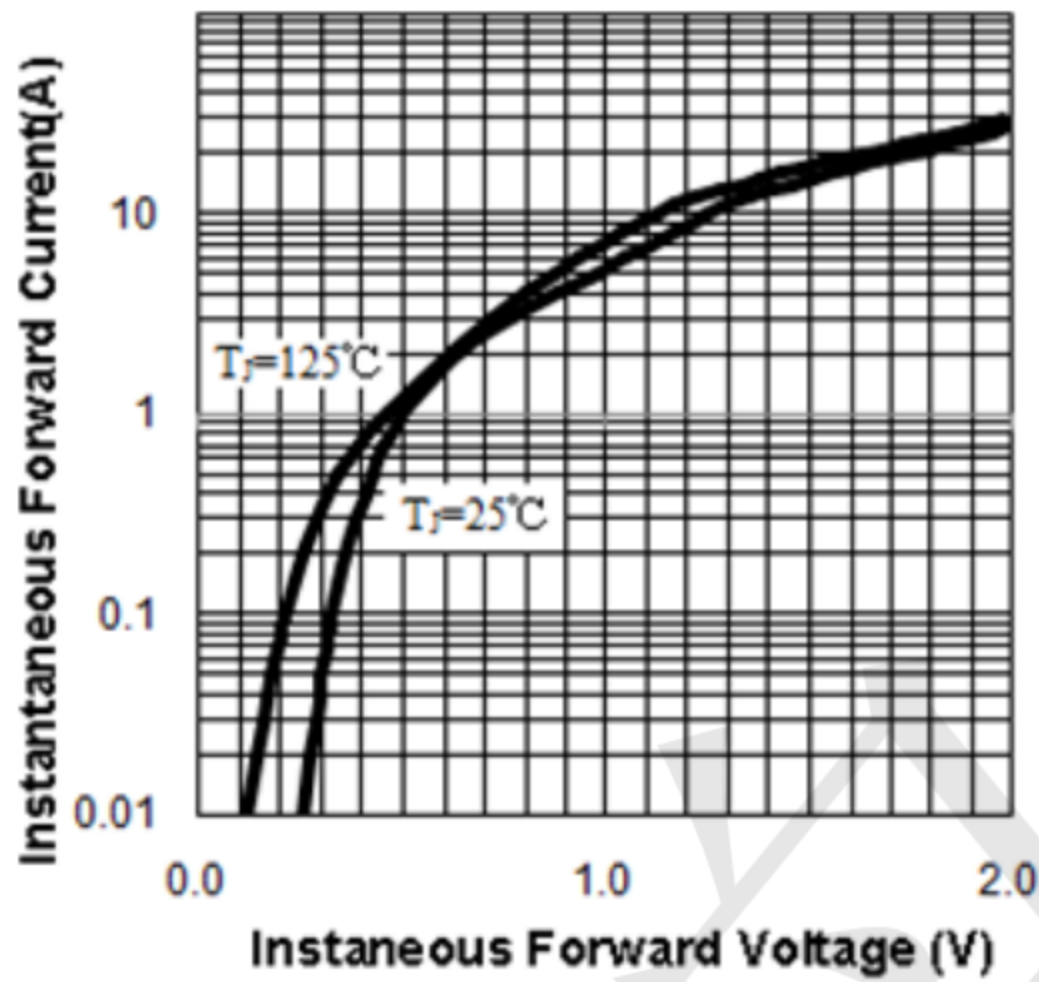


Fig.3 Typical Instantaneous Forward Characteristics

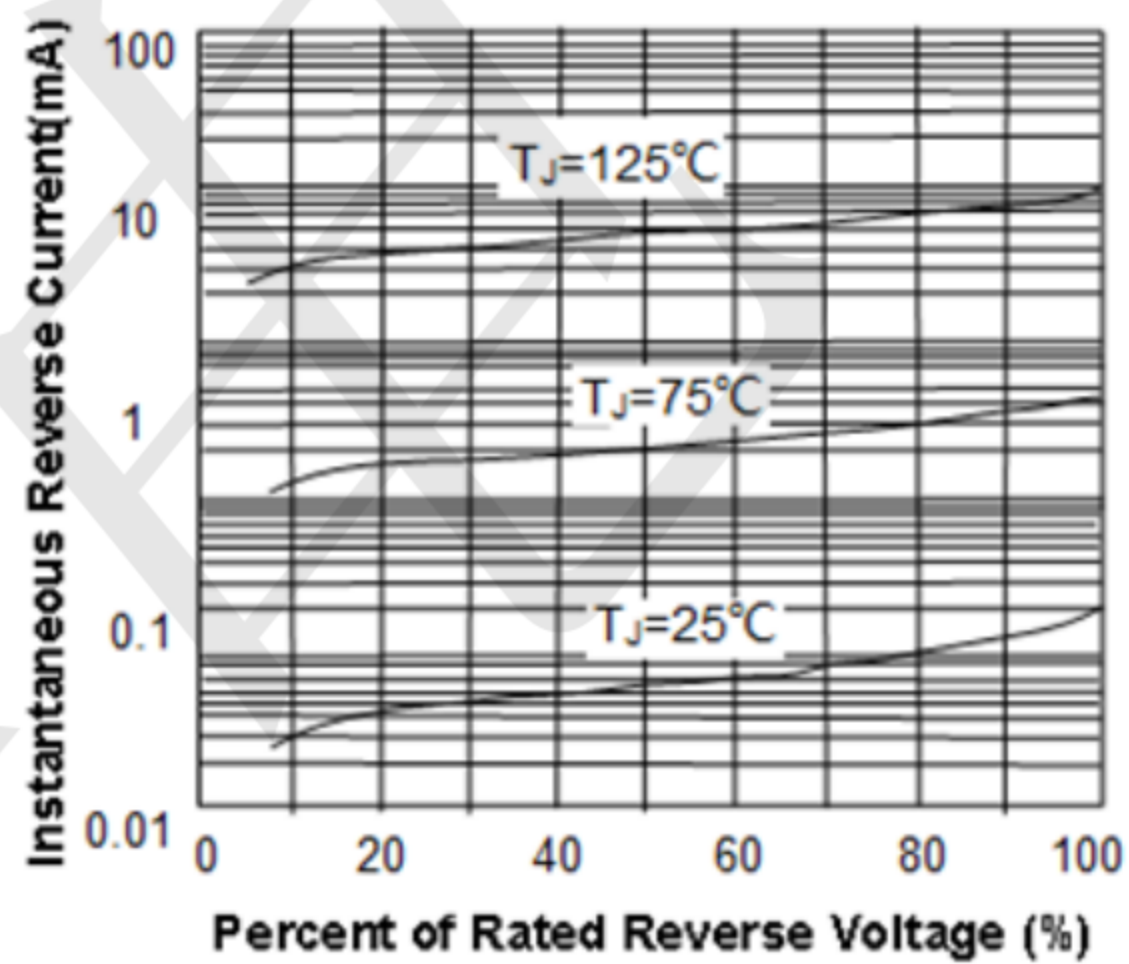
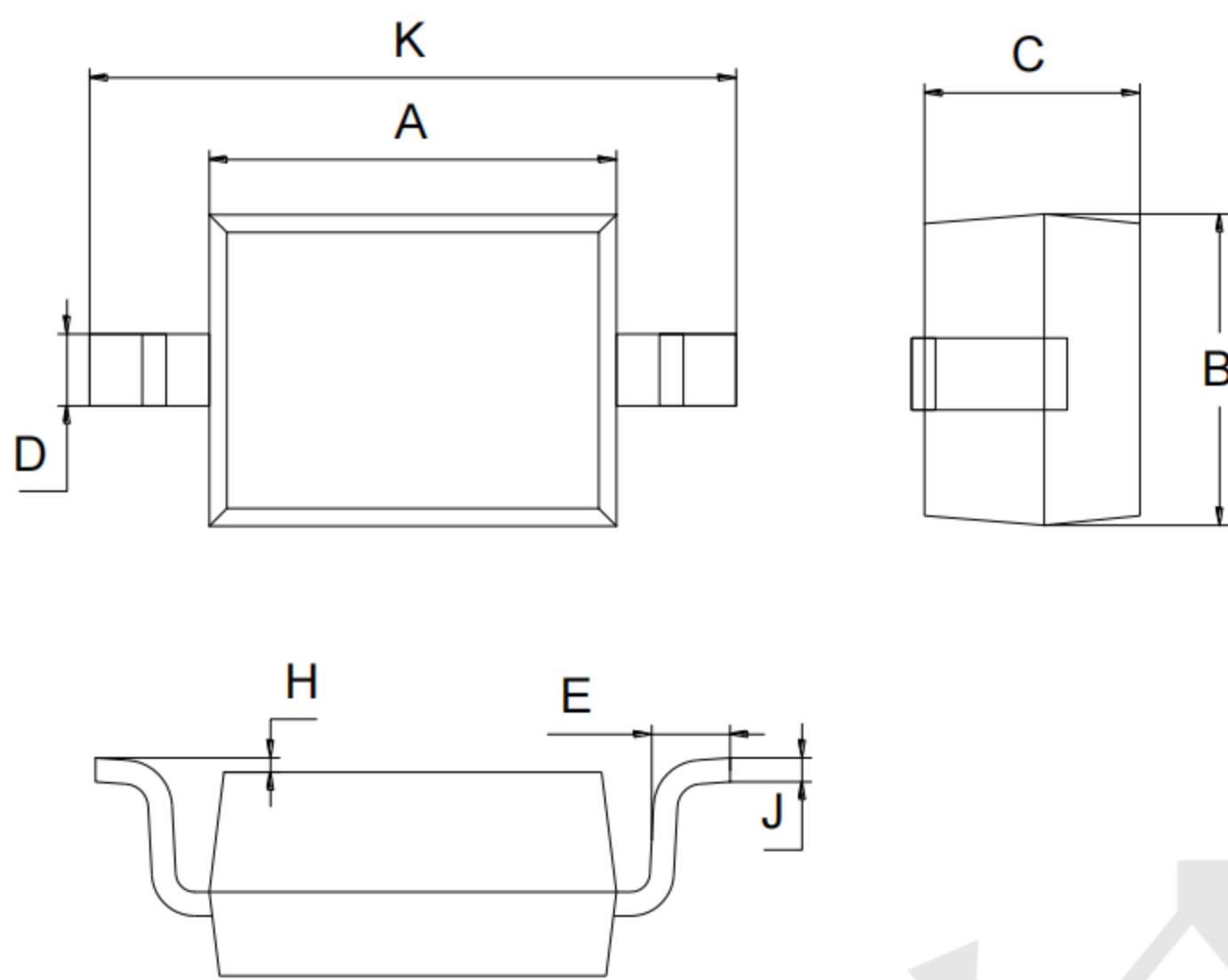


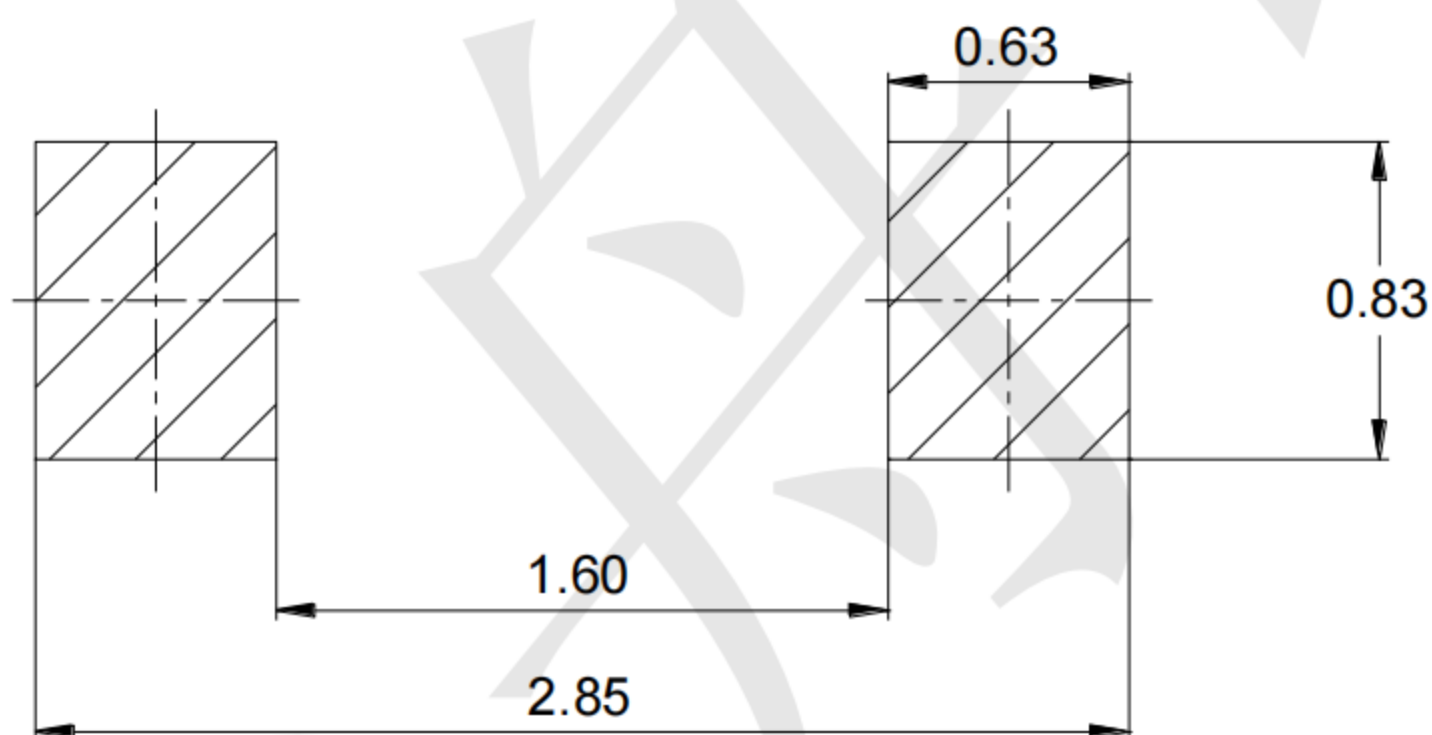
Fig.4 Typical Reverse Characteristics

**Outline Drawing - SOD323**



SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75

**Mounting Pad Layout-SOD323 (unit: mm)**



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