

## Trench MOS Barrier Schottky Rectifier

**DO-201AD**  
**TSA15L80**



Cathode   Anode

### Features

- Advanced trench technology
- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

### Applications

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

### Maximum ratings and electrical characteristics (T<sub>J</sub> = 25°C unless otherwise noted)

Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM	80		V
Maximum average forward rectified current		IF(AV)	15		A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode		IFSM	180		A
Operating junction and storage temperature range		TJ, TSTG	- 0 to +150		°C
Typical thermal resistance per leg	DO-201AD	RθJC	22		°C/W
Instantaneous forward voltage per diode			TYP.	MAX.	V
	IF=3A	TJ=25°C	0.	0.	
	IF=3A	TJ=125°C	0.	-	
	IF=15A	TJ=25°C	0.59		
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C	IR(2)	20	50	uA
	TJ=125°C		-	20	mA

Notes:

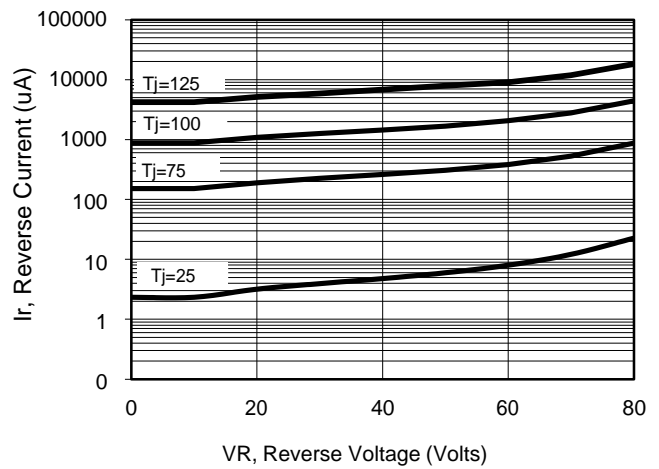
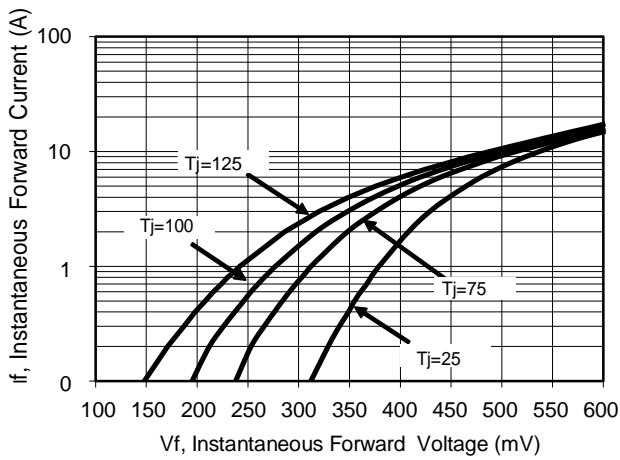
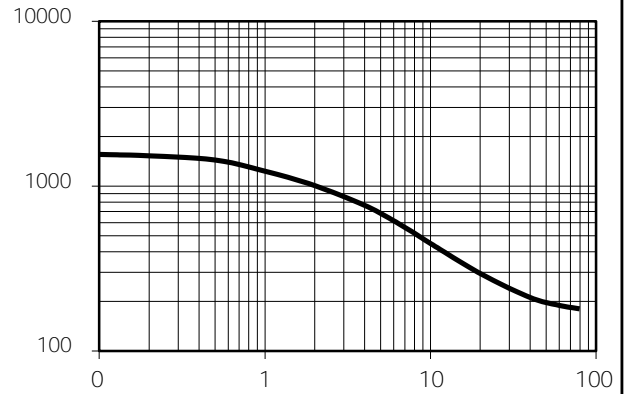
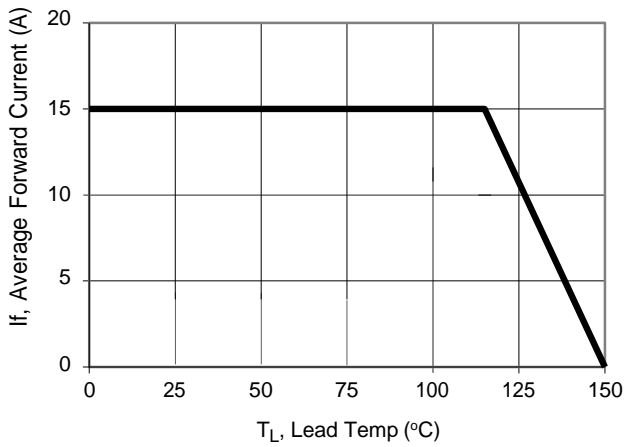
- (1) Pulse test: 300 μs pulse width, 1 % duty cycle  
 (2) Pulse test: Pulse width ≦ 40 ms



# TSA15L80

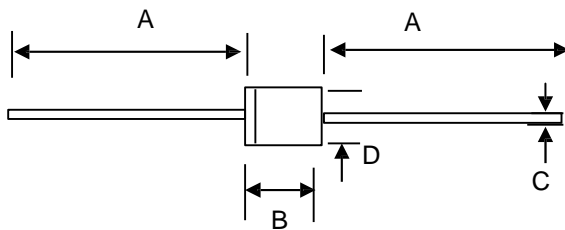
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## RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



## PACKAGE OUTLINE DIMENSIONS

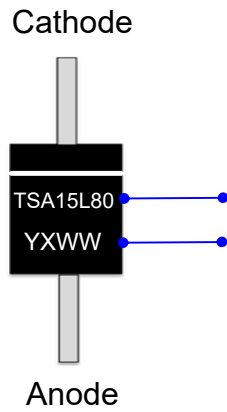
### DO-201AD



### DO-201AD mechanical data

UNIT		A	B	C	D
mm	max	26.5	9.5	1.4	5.3
	min	24.5	7.3	1.1	4.8
mil	max	1043.30	374.01	5.1	208.67
	min	946.57	287.40		188.97

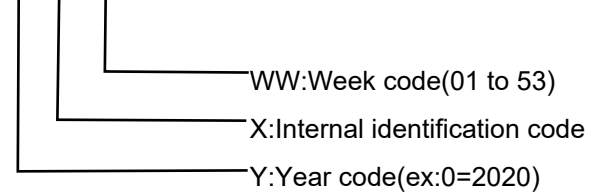
## Marking Information



Product model : TSA15L80

PDC information

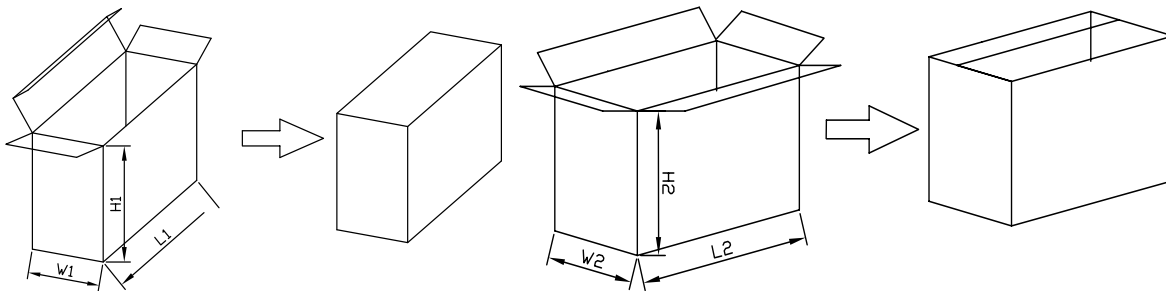
Y X WW



## Packaging Information

1. Inside Box

2. Outside Box



## Packaging Information

NO	UNIT	Inside Box			Outside Box		
		L1	W1	H1	L2	W2	H2
Size	mm	255	75	1			