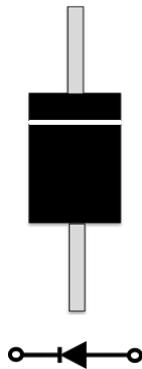


Trench MOS Barrier Schottky Rectifier

DO-201AD

TSA 6590 • „&P8E" / (< •-)p



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

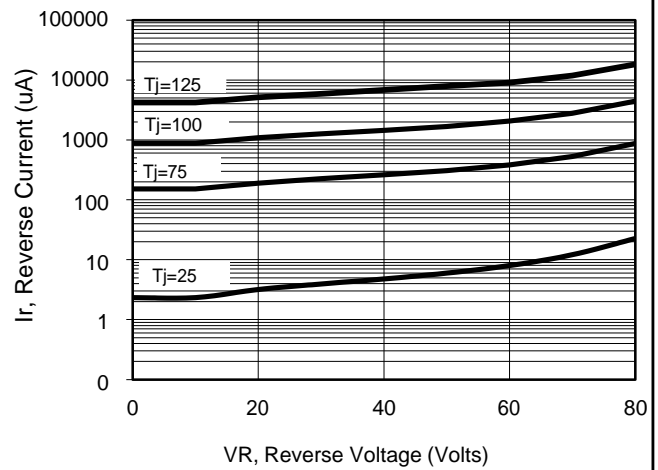
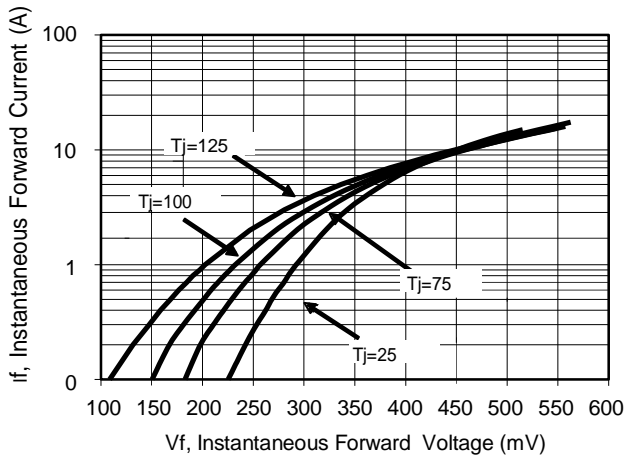
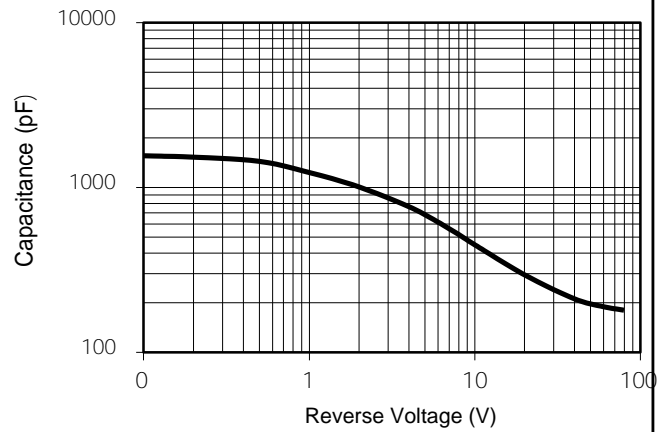
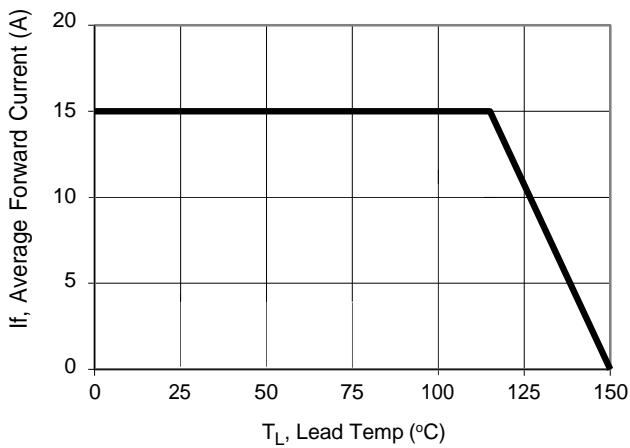
Maximum ratings and electrical characteristics (T_J = 25°C unless otherwise noted)

Parameter		Symbol	Limit		Unit	
Maximum repetitive peak reverse voltage		VRRM	45		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	20		A	
Operating junction and storage temperature range		TJ, TSTG	-50 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=125°C	0.7			
	IF=15A	TJ=125°C				
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C				200	µA
	TJ=125°C				50	mA

Notes:

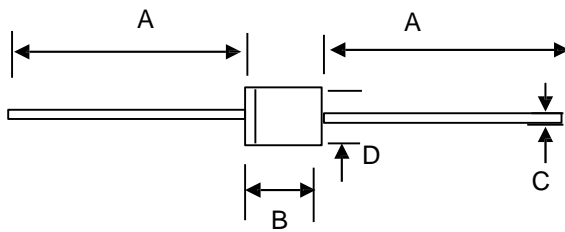
- (1) Pulse test: 300 µs pulse width, 1 % duty cycle
 (2) Pulse test: Pulse width 0.40 ms

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



PACKAGE OUTLINE DIMENSIONS

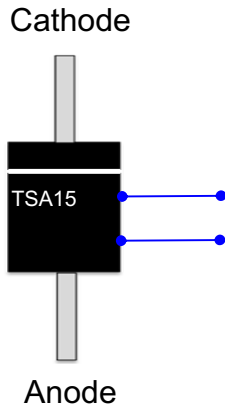
DO-201AD



DO-201AD mechanical data

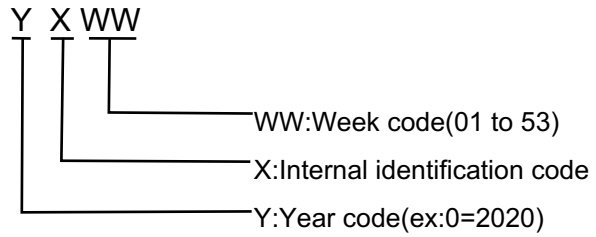
UNIT		A	B		D
mm	max	26.5	9.5	4	5.3
	min	24.5	7.3	1	4.8
mil	max	1043.30	374.01		208.67
	min	946.57	287.40		188.97

Marking Information



Product model : TSA15L45

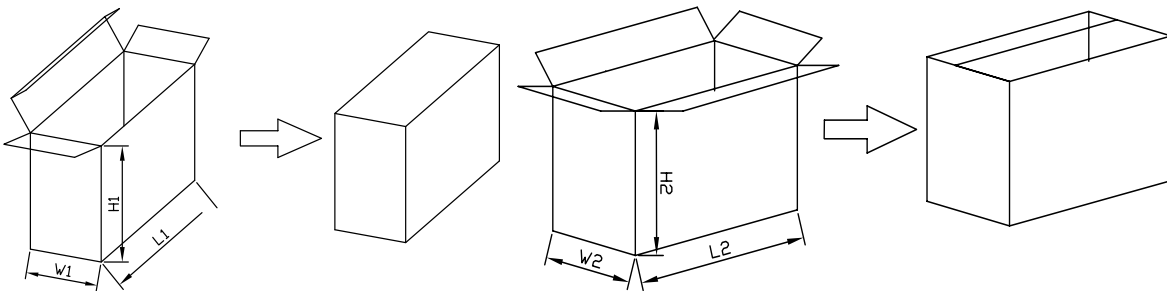
PDC information



DUWU] b[' =bZcf aUh] cb

% =bg] XY 6cl

&' G hg] XY 6cl



DUWU] b[' =bZcf aUh] cb

BC	I B=H	% =bg] XY 6cl			&' G hg] XY 6cl		
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		&)	+))	%4	4		