

Trench MOS Barrier Schottky Rectifier

DO-201AD
TSA5V45



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_J = 25°C unless otherwise noted)

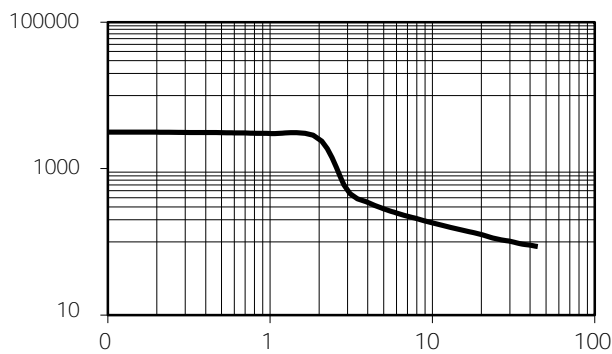
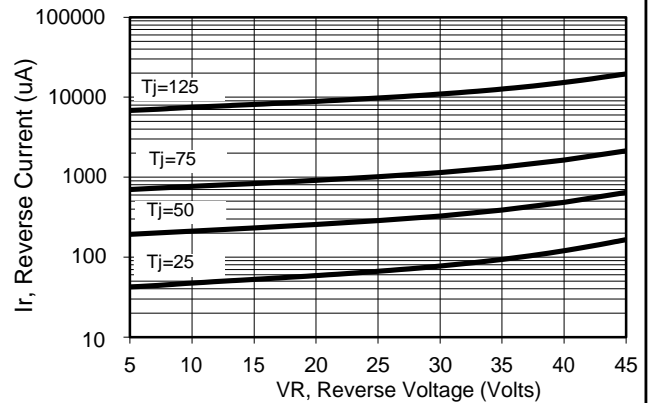
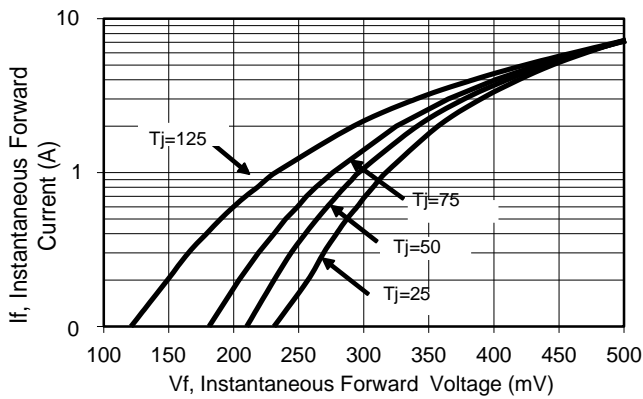
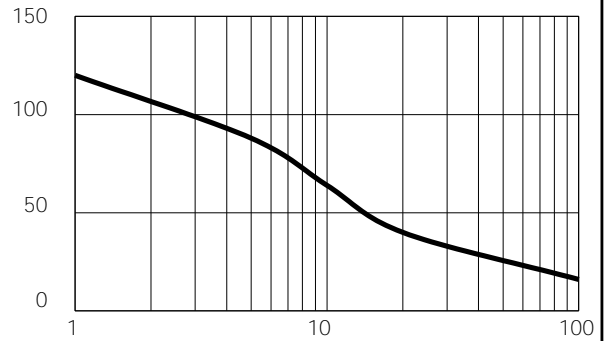
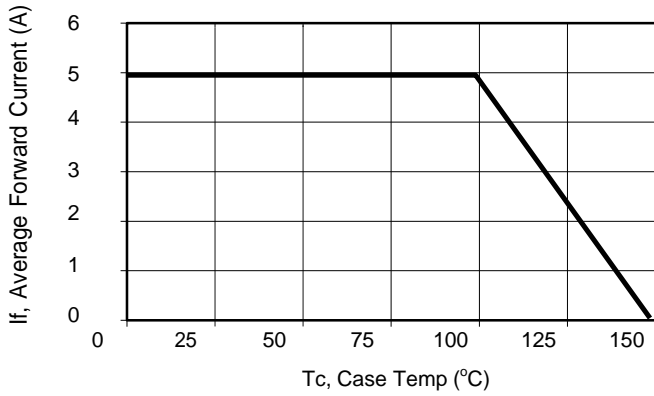
Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM	45		V
Maximum average forward rectified current		IF(AV)	5		A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode		IFSM	120		A
Operating junction and storage temperature range		TJ, TSTG	-50 to +150		°C
Typical thermal resistance per leg	DO-201AD	R _{JC}	22		°C/W
Instantaneous forward voltage per diode			TYP.	MAX.	
	IF=5A	TJ=25°C	0.4	0.	
	IF=5A	TJ=125°C	0.	-	
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C		80	100	uA
	TJ=125°C		-	10	mA

Notes:

(1) Pulse test: 300 μs pulse width, 1 % duty cycle

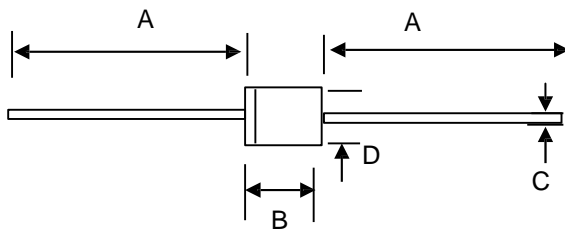
(2) Pulse test: Pulse width ≦ 40 ms

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



PACKAGE OUTLINE DIMENSIONS

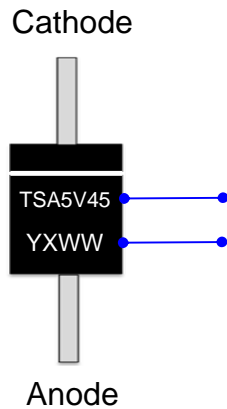
DO-201AD



DO-201AD mechanical data

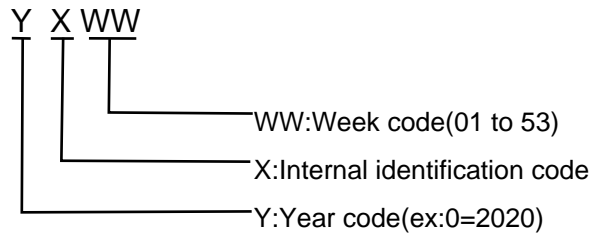
UNIT		A	B		D
mm	max	26.5	9.5	4	5.3
	min	24.5	7.3	1	4.8
mil	max	1043.30	374.01		208.67
	min	946.57	287.40		188.97

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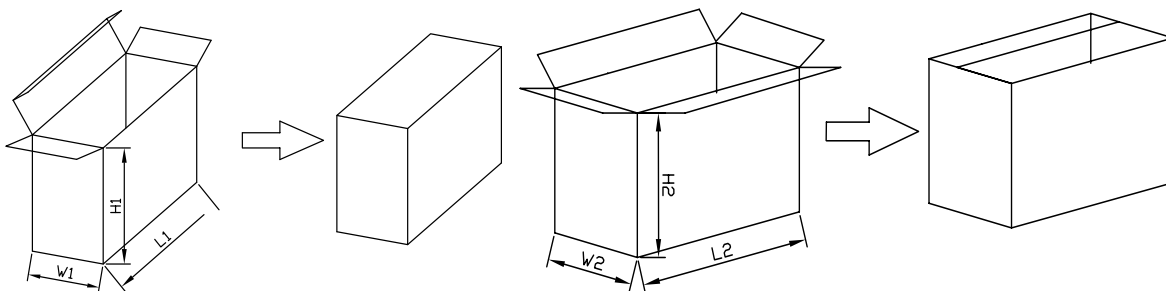
① Product model :

② PDC information



Packaging Information

1.



Packaging Information

NO	UNIT	Inside Box			Outside Box		
		L1	W1	H1	L2	W2	H2
Size	mm			1		20	0
QTY	PCS	Smallest package, 0PCS			, 00PCS/carton, boxes in total		
Note	Tolerance	20mm, ±3mm;	21-100mm, ±5mm;	101-500mm, ±10mm			