

Trench MOS Barrier Schottky Rectifier

DO-201AD
TSA5L80



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)

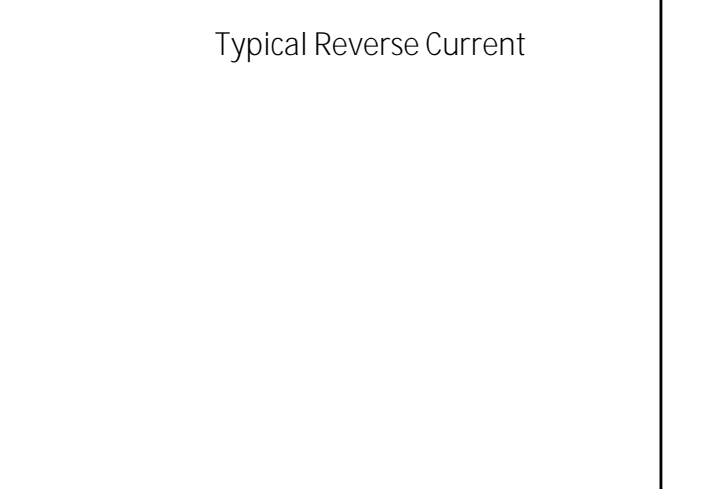
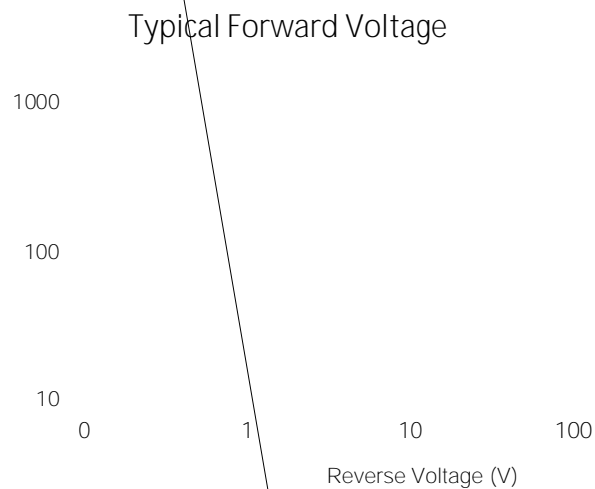
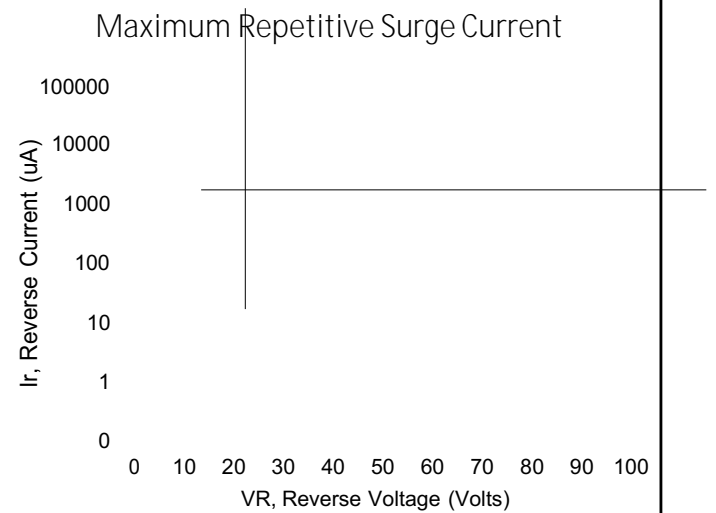
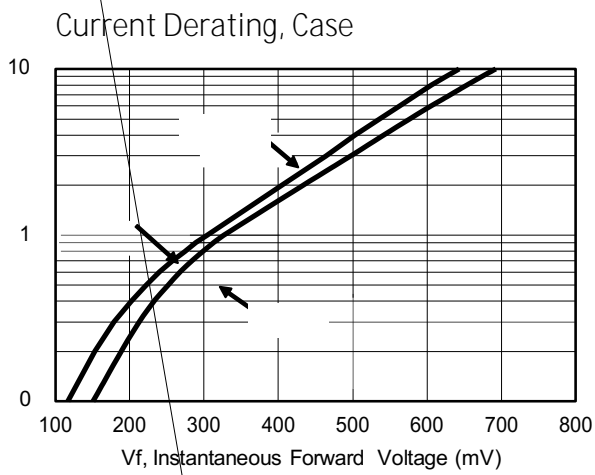
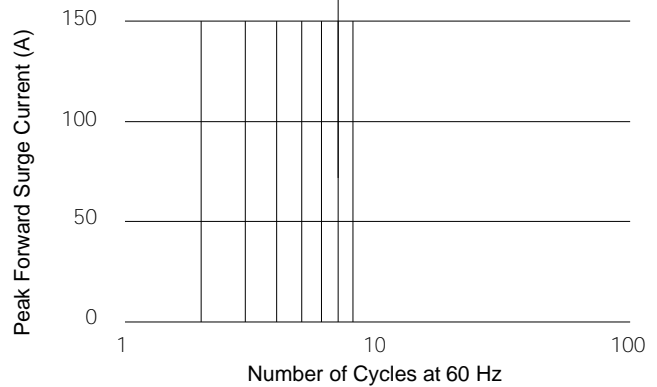
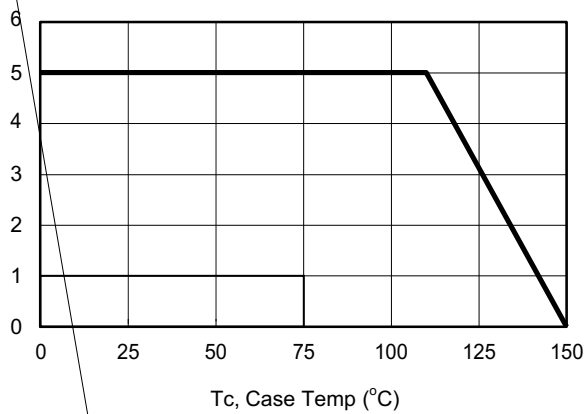
Parameter		Symbol	Limit	Unit	
Maximum repetitive peak reverse voltage		VRRM	80	V	
Maximum average forward rectified current		IF(AV)	5	A	
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode		IFSM	150	A	
Operating junction and storage temperature range		TJ, TSTG	-40 to +150	°C	
Typical thermal resistance per leg	DO-201AD	RθJC	2	°C/W	
Instantaneous forward voltage per diode			TYP.	MAX.	V
	IF= A	TJ=25°C	0.4	0.4	
	IF= A	TJ=125°C	0.	-	
	IF=5A	TJ=25°C	0.	0.	
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C		-	30	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)

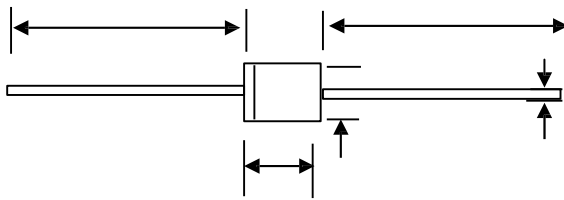


Typical Junction Capacitance

829 m 189.35 0 | S Q7.2 0 0 1 341.4620361 6

PACKAGE OUTLINE DIMENSIONS

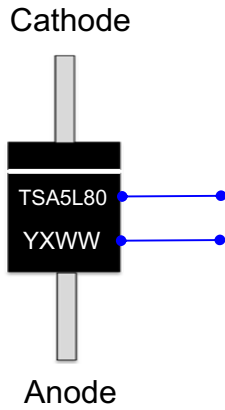
DO-201AD



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 : TSA5L80

PDC information

Y X WW

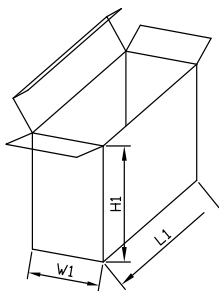
WW:Week code(01 to 53)

X:Internal identification code

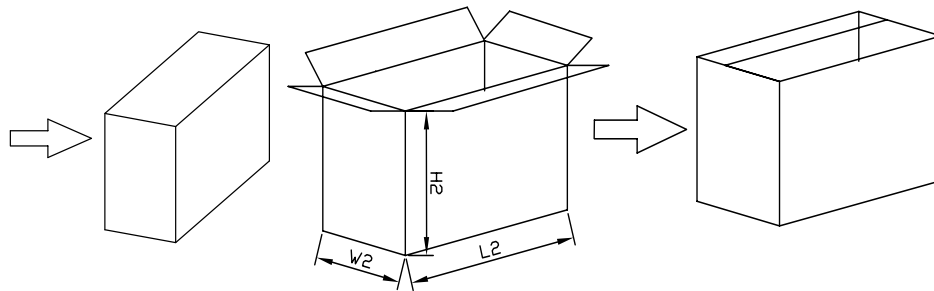
Y:Year code(ex:0=2020)

Packaging Information

1. Inside Box



2. Outside Box



Packaging Information

NO	UNIT	Inside Box			Outside Box		
Size	mm	L1	W1	H1	L2	W2	H2
		255	75	14Í	4FÍ	Gì€	HG€
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P[c^	V[^iæ}&^	mG€ { { É†H { { L GFÉF€€ { { É†Í { { L F€FÉÍ€€ { { É†F€ { {					