

Trench MOS Barrier Schottky Rectifier

DO-201AD
TSA



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

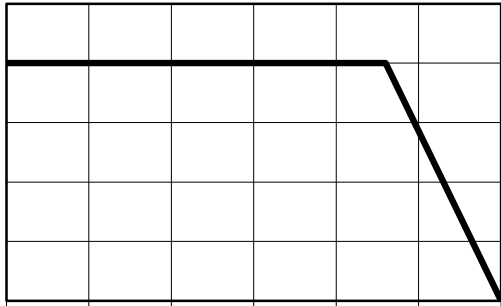
Maximum ratings and electrical characteristics (T_J = 25°C unless otherwise noted)

Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM	60		V
Maximum average forward rectified current		IF(AV)	8		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	-5 to +150		°C
Typical thermal resistance per leg	DO-201AD	R _{JC}	22		°C/W
Instantaneous forward voltage per diode			TYP.	MAX.	V
	IF=2A	TJ=25°C	0.35	0.38	
	IF=2A	TJ=125°C	0.30	-	
	IF=8A	TJ=25°C	0.49	0.54	
	IF=8A	TJ=125°C	0.44	-	
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C	IR(2)	-	100	µA
	TJ=125°C		-	100	mA

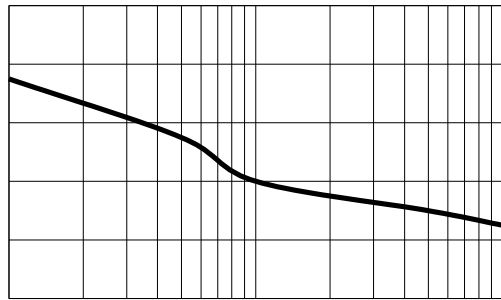
Notes:

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

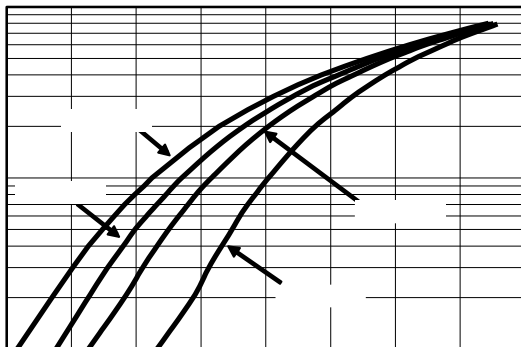
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



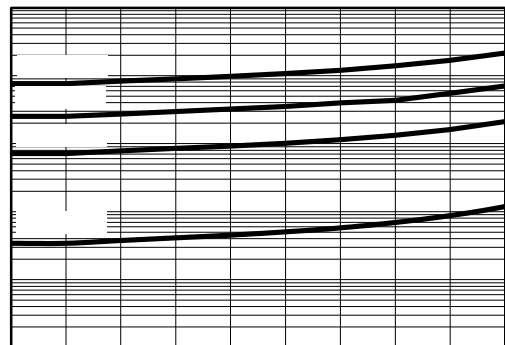
Current Derating, Case



Maximum Repetitive Surge Current



Typical Forward Voltage

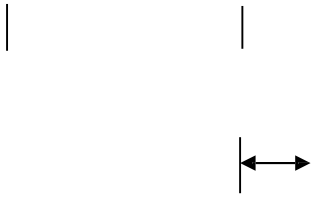


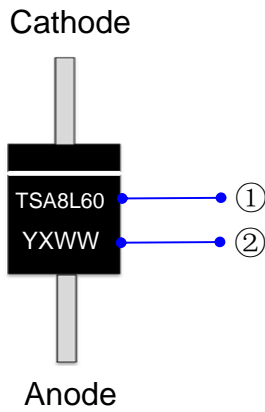
Typical Reverse Current

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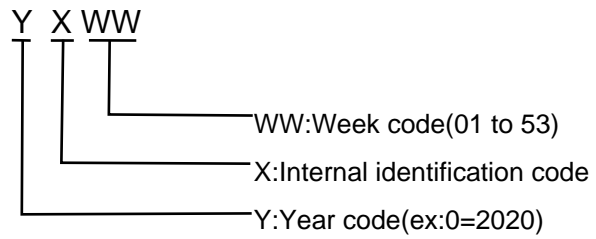
PACKAGE OUTLINE DIMENSIONS



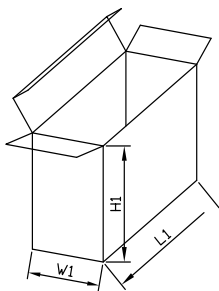


Product model : TSA8L60

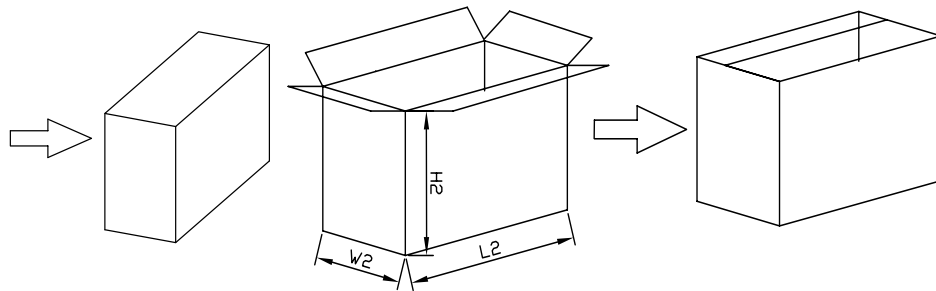
PDC information



1. Inside Box



2. Outside Box



NO	UNIT	Inside Box			Outside Box		
		L1	W1	H1	L2	W2	H2
Size	mm	255	75	1115	415	280	320
QTY	PCS	Smallest package, 1000PCS/carton			10,000PCS/carton, 10 boxes in total		
Note	Tolerance	20mm, ±3mm;		21-100mm, ±5mm;	101-500mm, ±10mm		