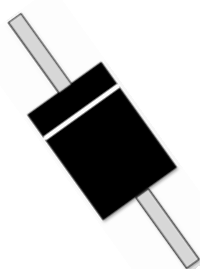


Trench MOS Barrier Schottky Rectifier

TSA3L40E DO-15



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 (TJ = 25°C unless otherwise noted)

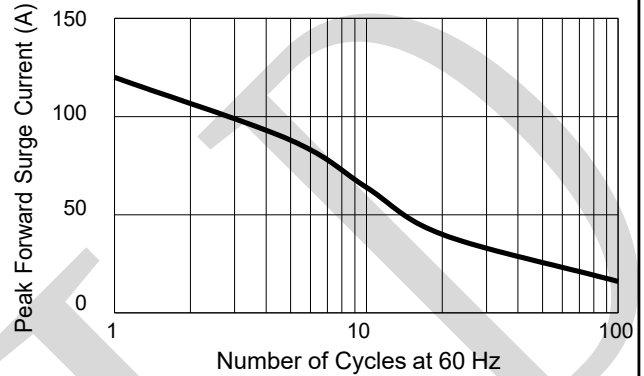
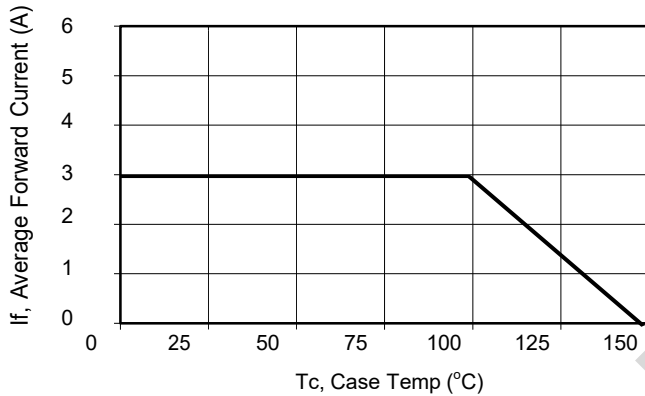
Parameter			Symbol	Limit		Unit
Maximum repetitive peak reverse voltage			VRRM	40		V
Maximum average forward rectified current			IF(AV)	3		A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode			IFSM	120		A
Operating junction and storage temperature range			TJ, TSTG	-50 to +150		°C
Typical thermal resistance per leg		DO-201AD	RθJC	22		°C/W
Instantaneous forward voltage per diode			VF(1)	TYP.	MAX.	V
	IF=3A	TJ=25°C		0.40	0.45	
	IF=3A	TJ=125°C		0.35	-	
Instantaneous reverse current per diode at rated reverse voltage		TJ=25°C	IR(2)	5	30	uA
		TJ=125°C		5	-	mA

Notes:

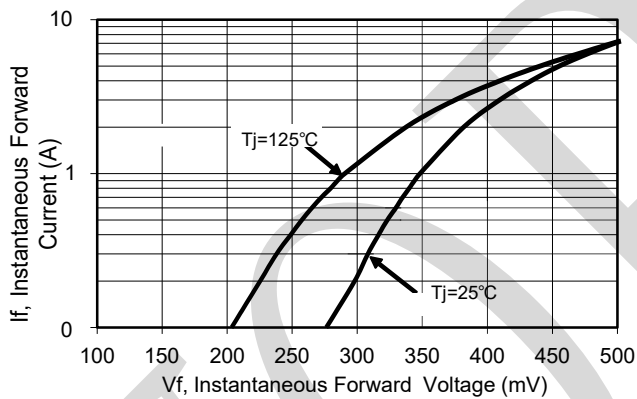
(1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

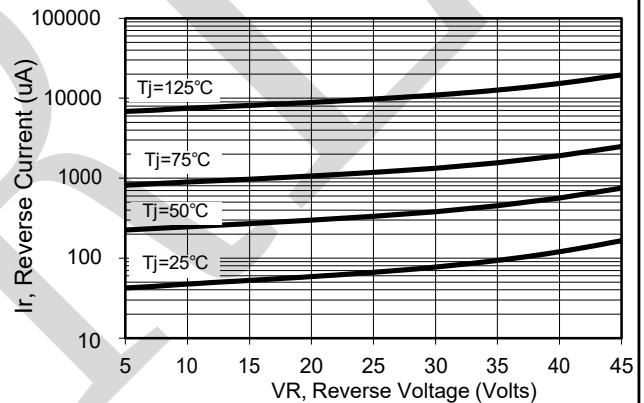
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



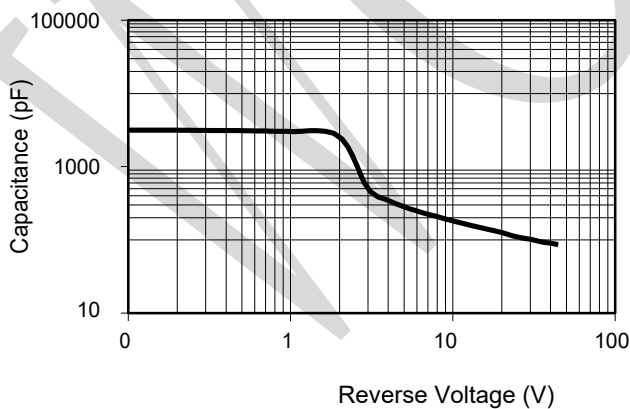
Current Derating, Case



Maximum Repetitive Surge Current



Typical Forward Voltage



Typical Reverse Current

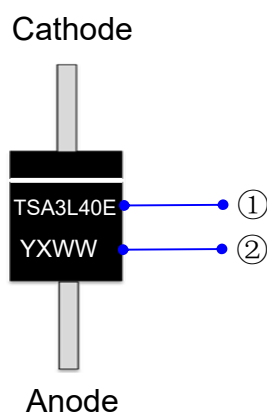
Typical Junction Capacitance

PACKAGE OUTLINE DIMENSIONS

DO-15 dimensions

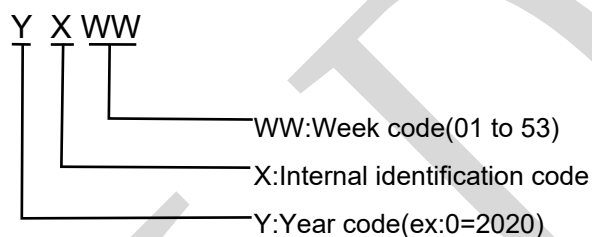
Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	6.05	6.75	0.238	0.266
B	2.95	3.53	0.116	0.139
C	24.01	29.9	0.945	1.181
D	0.71	0.88	0.028	0.035

Marking Information



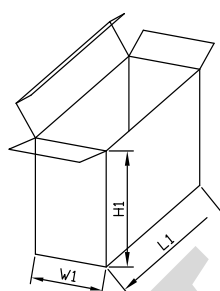
①Product model : TSA3L40E

②PDC information :

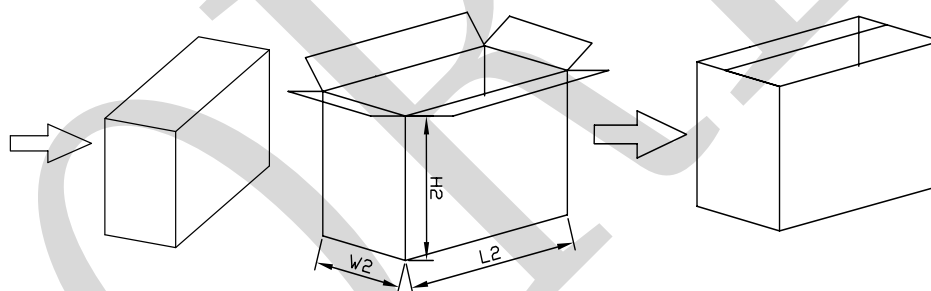


Packaging Information

1.Inside Box



2.Outside Box



Packaging Information

NO	UNIT	Inside Box			Outside Box		
Size	mm	L1	W1	H1	L2	W2	H2
		255	75	145	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					