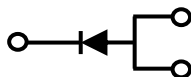


## Trench MOS Barrier Schottky Rectifier

### TSP12L100SP

TO-277



- Advanced trench technology
- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM	100		V
Maximum average forward rectified current		IF(AV)	12		A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode		IFSM	200		A
Operating junction and storage temperature range		TJ, TSTG	-55 to +150		°C
Typical thermal resistance per diode(Mounted on FR-4 PCB)		R JC	72		°C/W
Instantaneous forward voltage per diode		VF(1)	TYP.	MAX.	V
	IF=2A TJ=25°C		0.45	0.49	
	IF=2A TJ=125°C		0.40	-	
	IF=12A TJ=25°C		0.68	0.72	
	IF=12A TJ=125°C		0.63	-	
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C	IR(2)	20	80	uA
	TJ=125°C		-	20	mA

Notes:

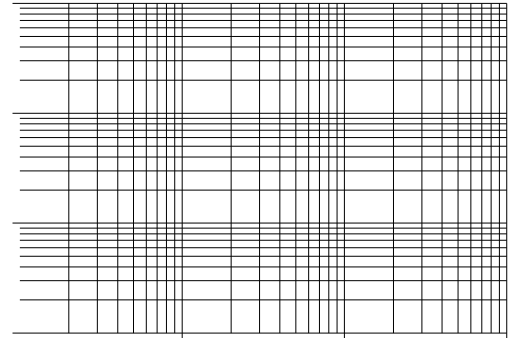
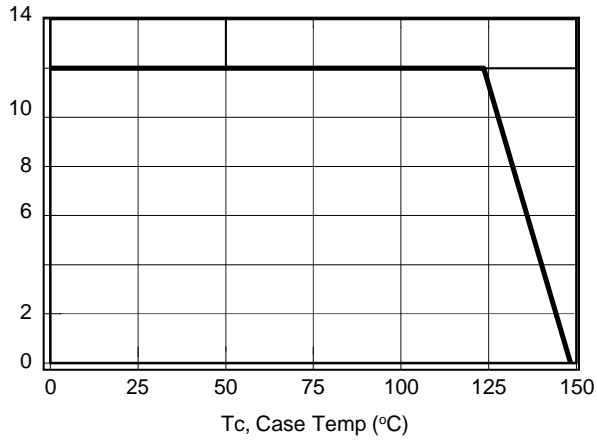
(1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≦ 40 ms

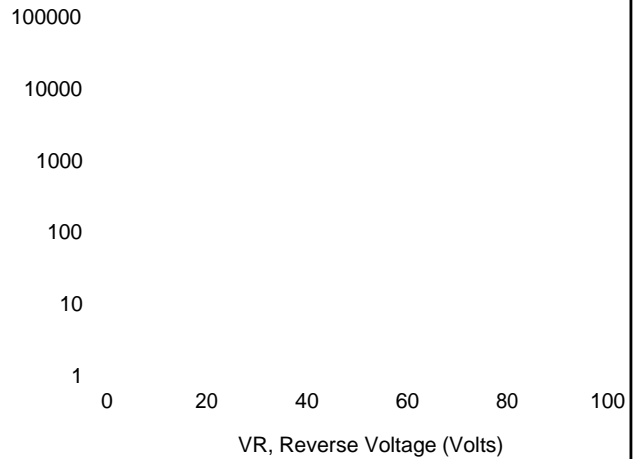
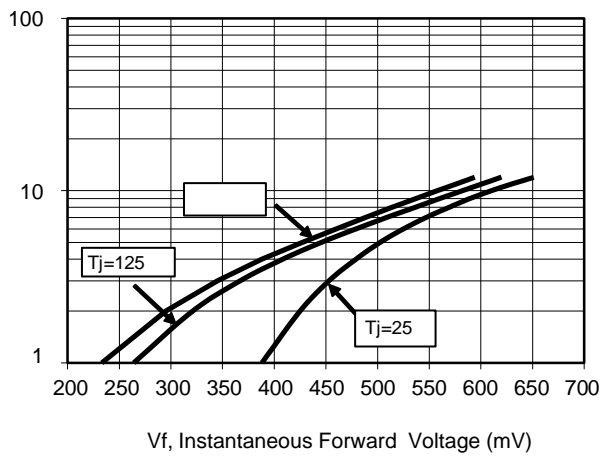
# TSP

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(TA = 25 °C unless otherwise noted)

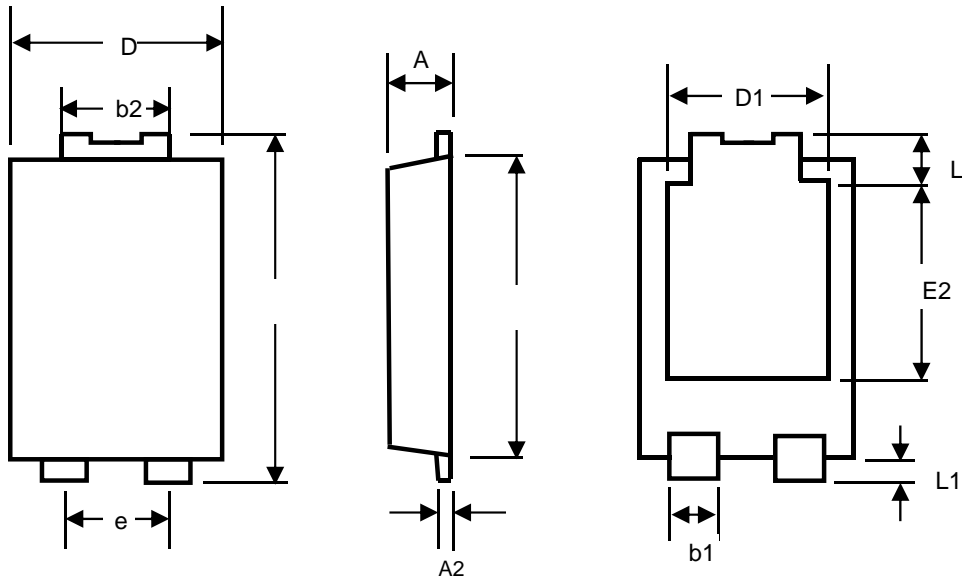


## Typical Junction Capacitance



# TSP

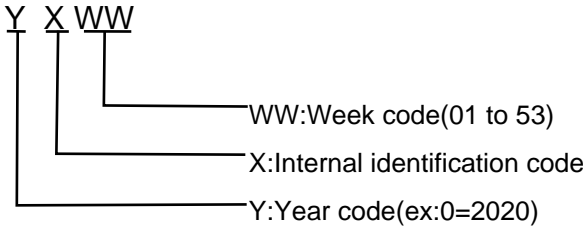
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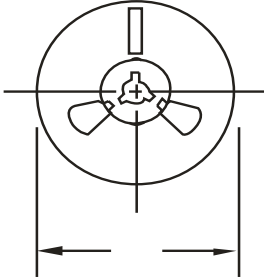
UNIT		A	A2	b1	b2	D	D1	E	E1	E2	L	L1
mm	max	1.3	0.4	1.0	1.9	4.3	3.05	6.6				
	min											
mil	max	51.18	15.75	39.37	74.80	169.3	120.0	259.8				
	min											

Product model :TSP12L100SP Referred to as 12L100

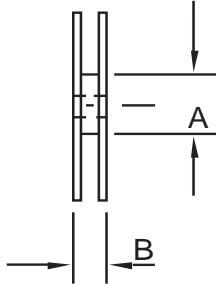
PDC information



1.Reel Dimensions



2.Inside Box



3.Outside Box

