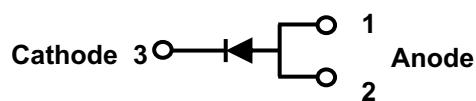


Trench MOS Barrier Schottky Rectifier

TSP12L100SP

TO-277



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 ($T_J = 25^\circ\text{C}$ unless otherwise noted)

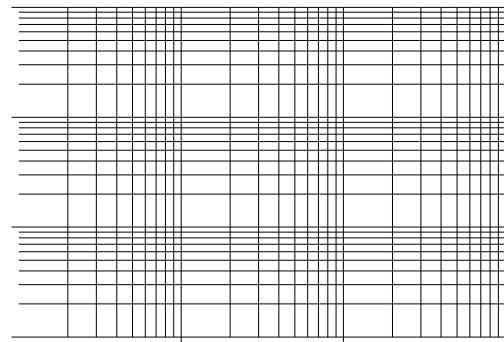
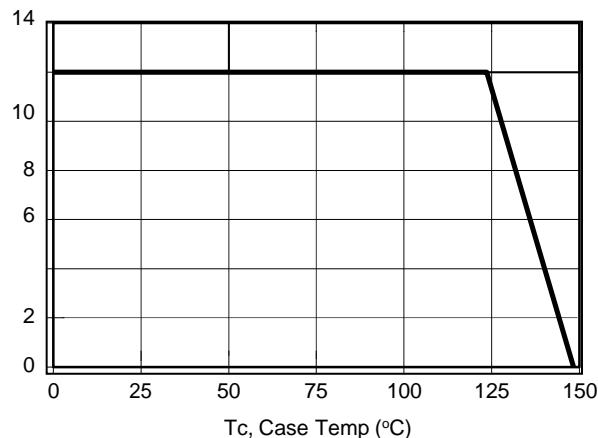
Parameter	Symbol	Limit		Unit
Maximum repetitive peak reverse voltage	VRRM	100		V
Maximum average forward rectified current	IF(AV)	12		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load per diode	IFSM	200		A
Operating junction and storage temperature range	TJ, TSTG	-55 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.	
		0.45	0.49	V
		0.40	-	
		0.68	0.72	
		0.63	-	
Instantaneous reverse current per diode at rated reverse voltage	IR(2)	20	80	uA
		-	20	mA

Notes:

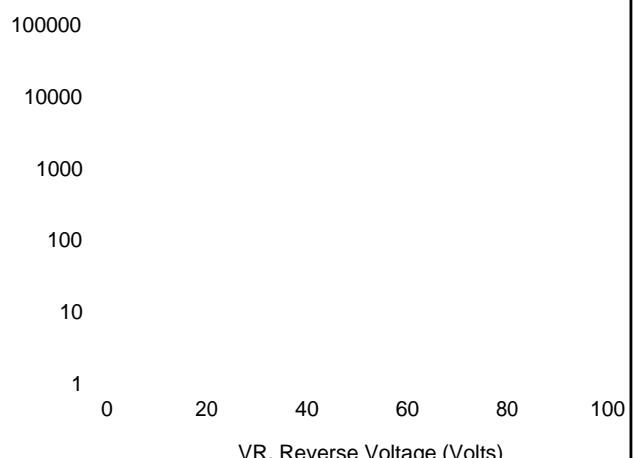
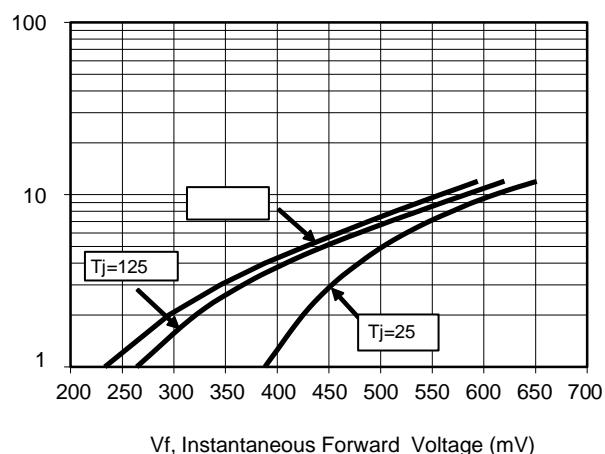
(1) Pulse test: 300 µs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

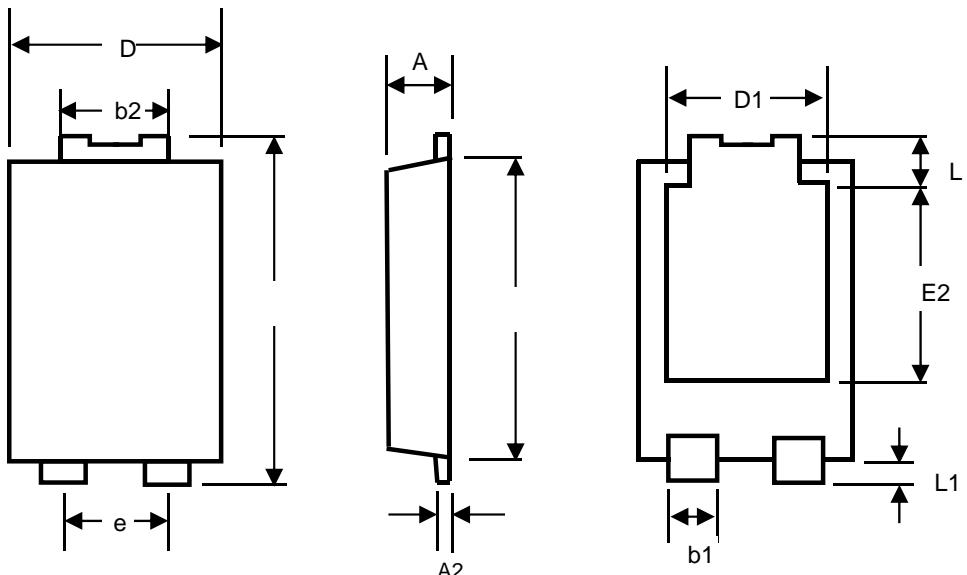
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



Typical Junction Capacitance



PACKAGE OUTLINE DIMENSIONS



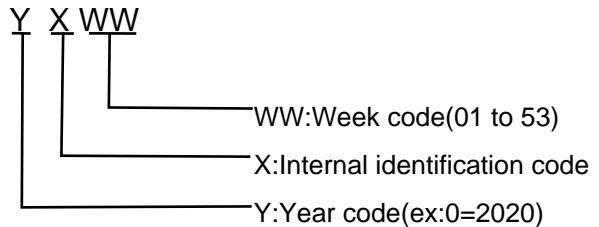
TO-277 mechanical data

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											

Marking Information

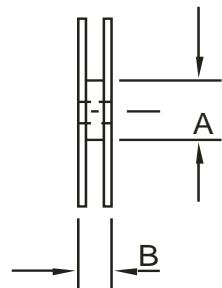
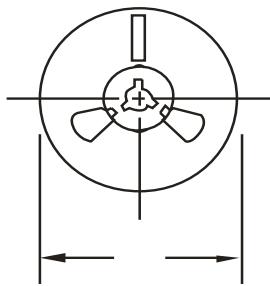
①Product model :TSP12L100SP Referred to as 12L100

②PDC information

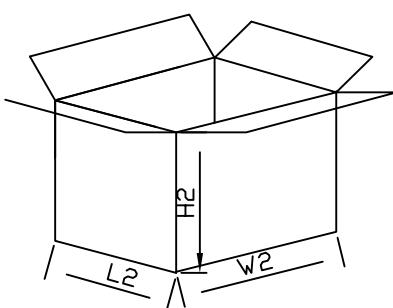


Packaging Information

1.Reel Dimensions



2.Inside Box



3.Outside Box

Packaging Information