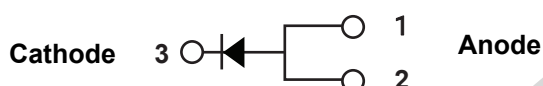


Trench MOS Barrier Schottky Rectifier

TSP10L200SP

TO-277



Features

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

Applications

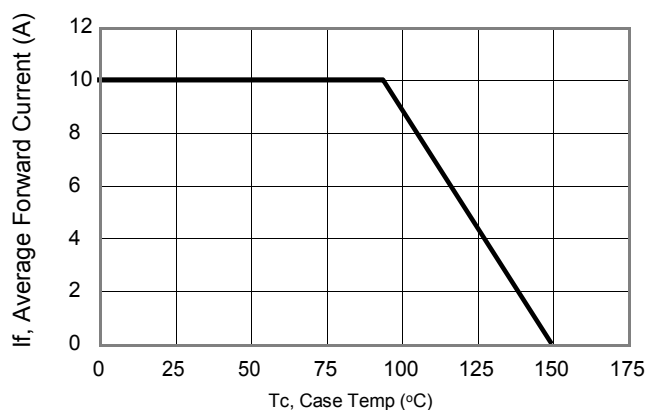
- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

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

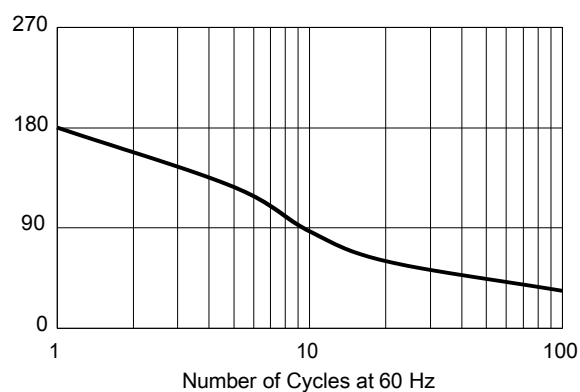
Parameter			Symbol	Limit		Unit
Maximum repetitive peak reverse voltage			VRRM	200		V
Maximum average forward rectified current			IF(AV)	10		A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode			IFSM	180		A
Operating junction and storage temperature range			T _J , T _{STG}	-50 to +150		°C
Typical thermal resistance per leg			R _{θJC}	6		°C/W
Instantaneous forward voltage per diode			VF	TYP.	MAX.	V
	IF=3A	TJ=25°C		0.75	0.80	
	IF=3A	TJ=125°C		0.70	-	
	IF=10A	TJ=25°C		0.82	0.87	
	IF=10A	TJ=125°C		0.77	-	
Instantaneous reverse current per diode at rated reverse voltage		TJ=25°C	IR	1	5	uA
		TJ=125°C		-	80	uA

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

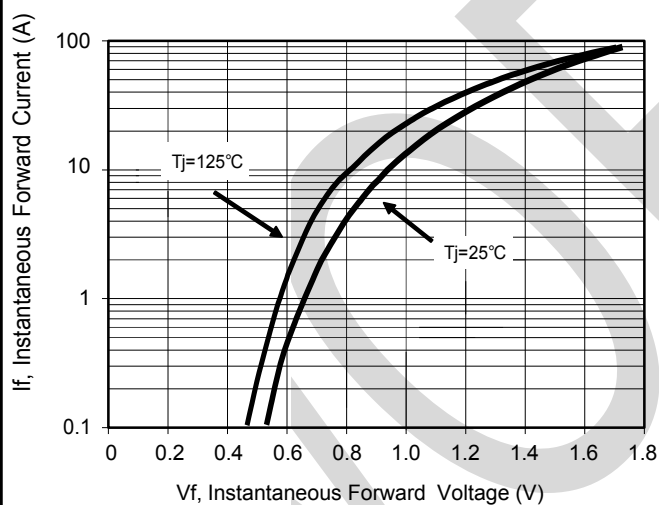
Current Derating, Case



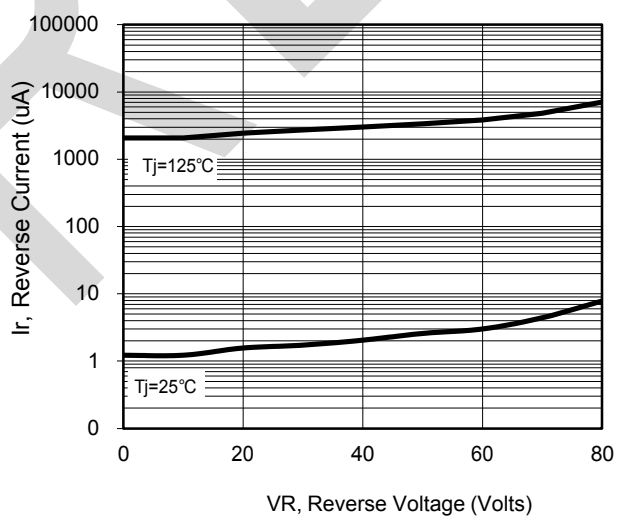
Maximum Repetitive Surge Current



Typical Forward Voltage

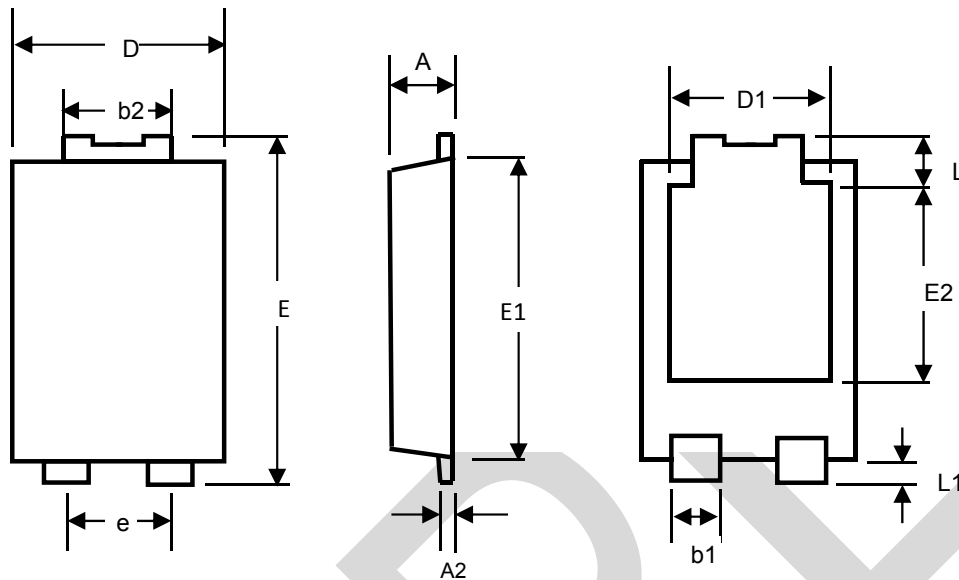


Typical Reverse Current



PACKAGE OUTLINE DIMENSIONS

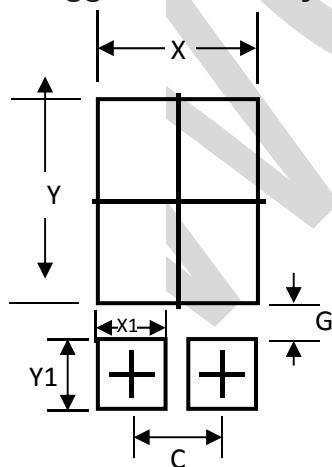
TO-277



TO-277 Mechanical Data

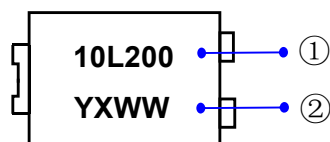
UNIT		A	A2	b1	b2	D	D1	E	E1	E2	L	L1
mm	max	1.3	0.4	1.0	1.9	4.3	3.05	6.6	5.75	3.55	1.0	0.7
	min	1.1	0.2	0.8	1.7	3.9		6.4	5.3		0.8	0.5
mil	max	51.18	15.75	39.37	74.80	169.3	120.0	259.8	226.3	139.7	39.37	27.55
	min	43.30	7.87	31.49	66.93	153.5		252.0	208.6		31.49	19.69

TO-277 Suggested Pad Layout



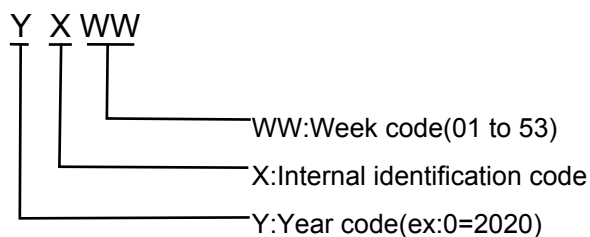
UNIT		C	G	X	X1	Y	Y1
mm	min	1.80	0.90	3.4	1.4	4.9	1.4
mil	min	78.86	35.43	133.86	35.43	192.91	55.12

Marking Information



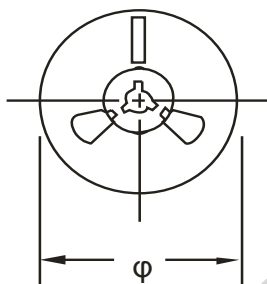
①Product model :TSP10L200SP Referred to as 10L200

②PDC information:

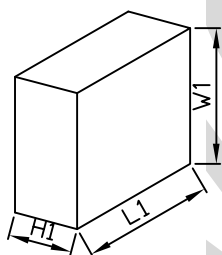


Packaging Information

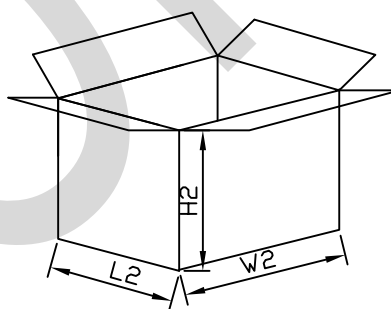
1.Reel Dimensions



2.Inside Box



3.Outside Box



Packaging Information

NO	UNIT	Reel Dimensions			Inside Box			Outside Box		
Size	mm	φ	A	B	L1	W1	H1	L2	W2	H2
		330	70	15	335	335	43	360	360	360
QTY	PCS	Smallest package,5000PCS/reel			10,000PCS,2 reel in total			80,000PCS/carton,8 boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									