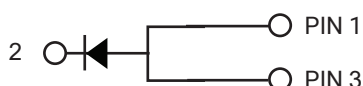
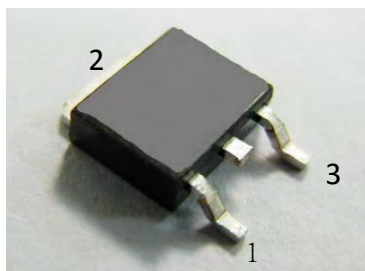


Trench MOS Barrier Schottky Rectifier

TSP10V120D-S
TO-252



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)

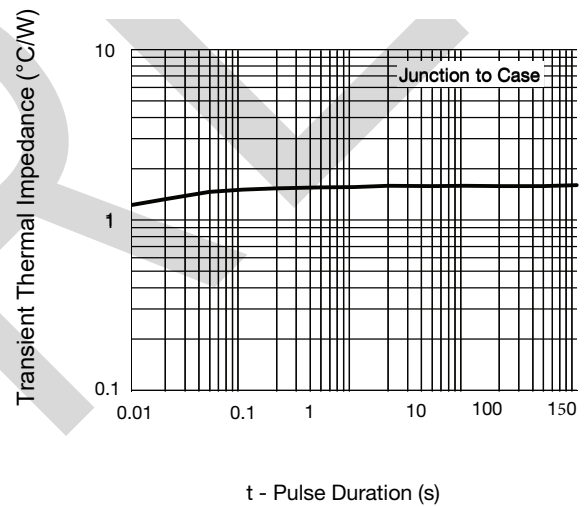
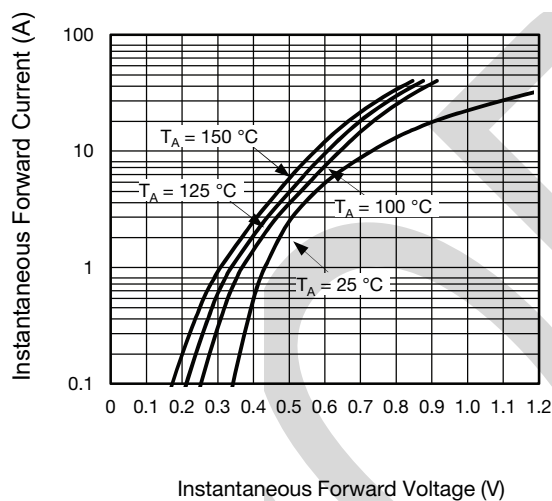
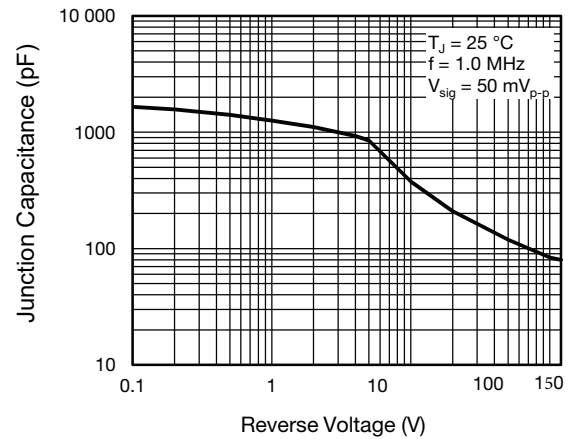
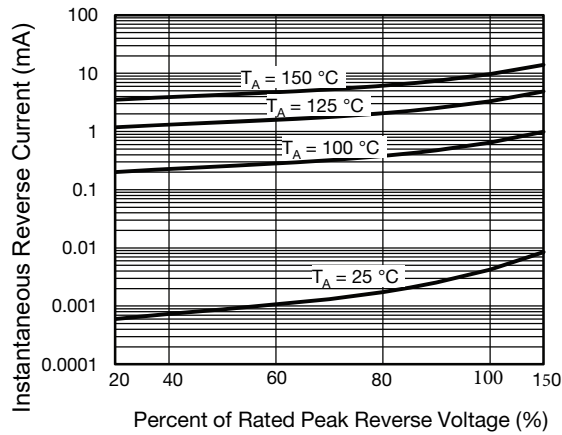
Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM	120		V
Maximum average forward rectified current		IF(AV)	10		A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode		IFSM	180		A
Operating junction and storage temperature range		TJ, TSTG	-50 to +150		°C
Typical thermal resistance per leg	TO-252	RθJC	6		°C/W
Instantaneous forward voltage per diode			TYP.	MAX.	V
	IF=2A	TJ=25°C	0.43	0.48	
	IF=2A	TJ=125°C	0.38	-	
	IF=10A	TJ=25°C	0.75	0.80	
	IF=10A	TJ=125°C	0.69	-	
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C		20	-	uA
	TJ=125°C		-	50	mA

Notes:

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

(2) Pulse test: Pulse width ≤ 40 ms

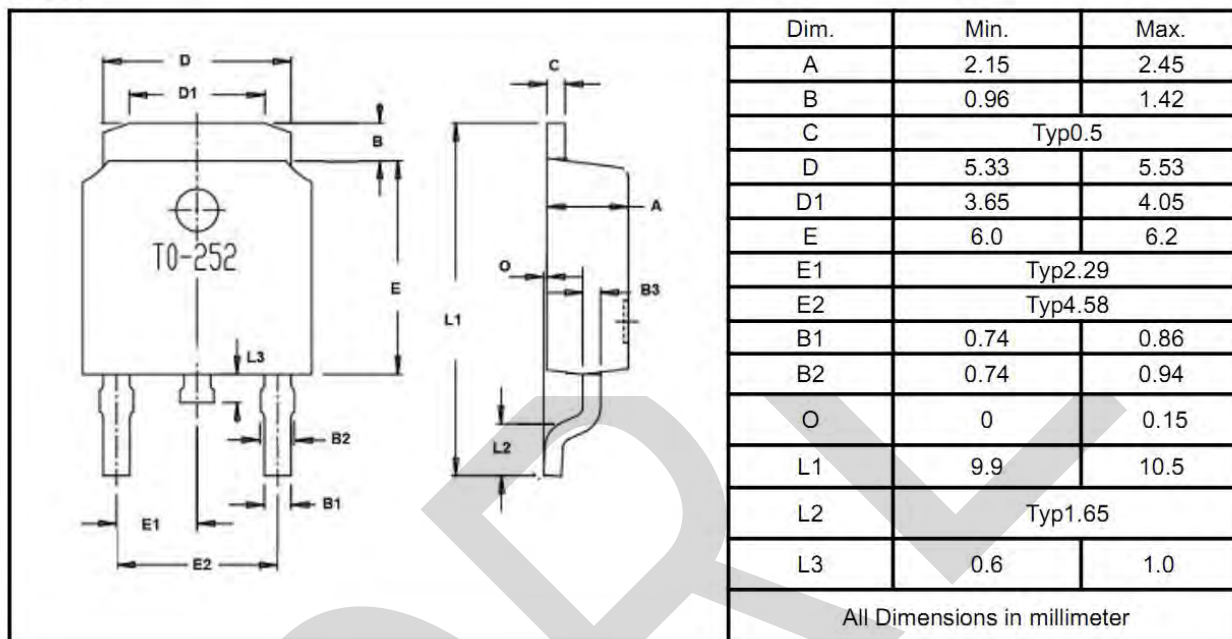
RATINGS AND CHARACTERISTICS CURVES ($T_A = 25^\circ\text{C}$ unless otherwise noted)



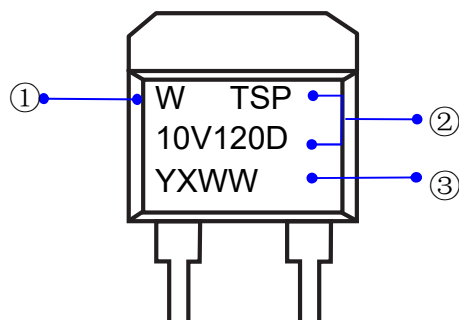
PACKAGE OUTLINE DIMENSIONS

Note: unit In(mm)

TO-252



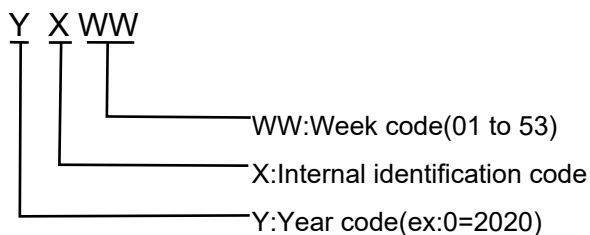
Marking Information



①W : Company's trademark

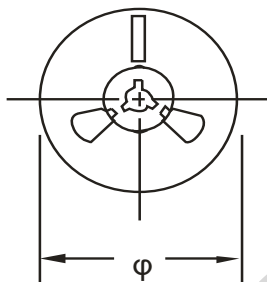
②Product model : TSP10V120D For
TSP10V120D-S

③PDC information :

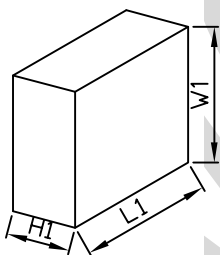


Packaging Information

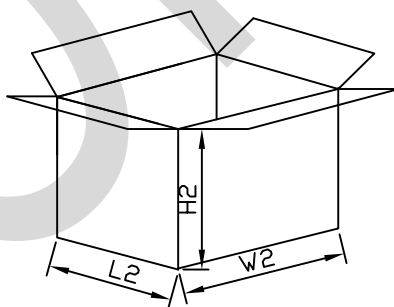
1.Reel Dimensions



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	100	15	340	335	45	370	360	270
QTY	PCS	Smallest package,2500PCS/reel			5,000PCS,2 reel in total			25,000PCS/carton,5 boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									