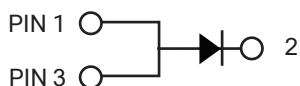
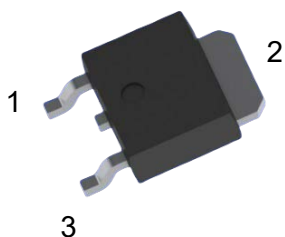


Trench MOS Barrier Schottky Rectifier

TSP10S150D-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)

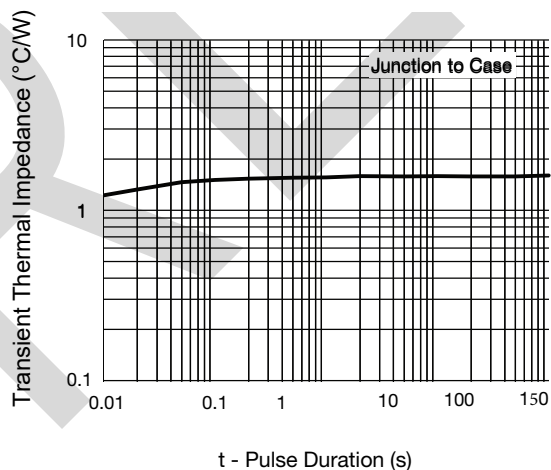
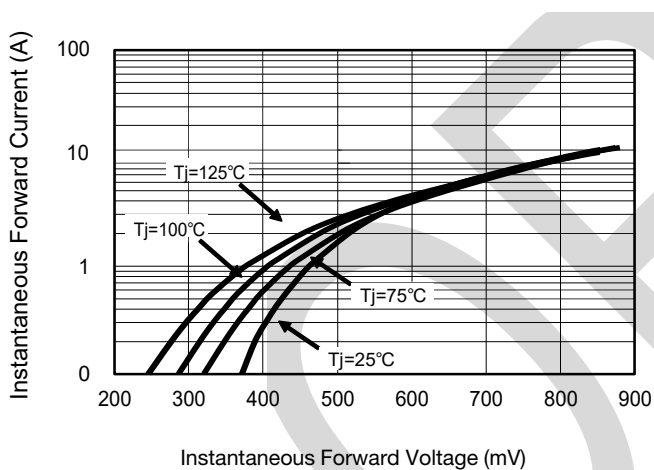
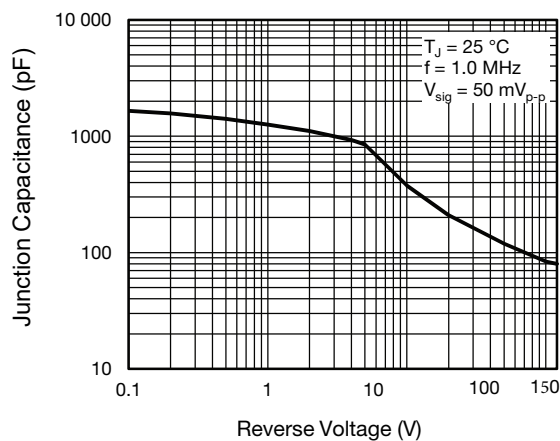
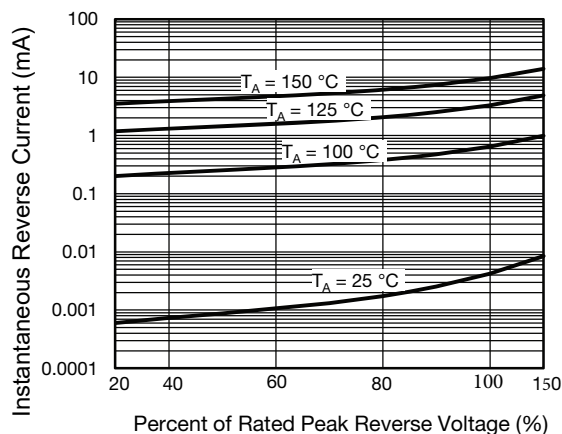
Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM	150		V
Maximum average forward rectified current		IF(AV)	10		A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode		IFSM	160		A
Operating junction and storage temperature range		TJ, TSTG	-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	0.50	0.55	
	IF=2A	TJ=125°C	0.45	-	
	IF=10A	TJ=25°C	0.92	0.97	
	IF=10A	TJ=125°C	0.87	-	
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C		-	50	uA
	TJ=125°C		-	10	mA

Notes:

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

(2) Pulse test: Pulse width ≤ 40 ms

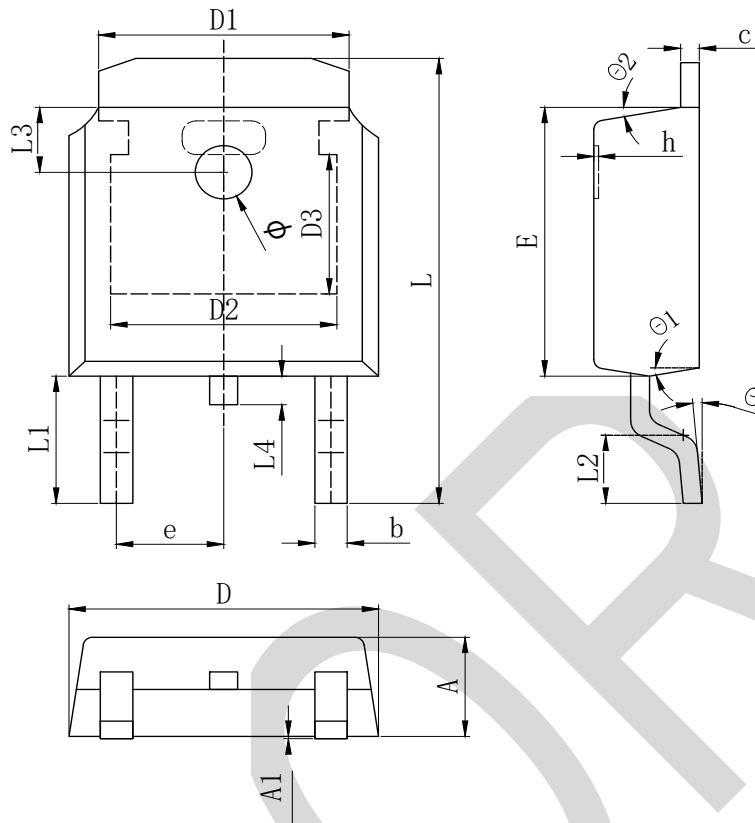
RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)



PACKAGE OUTLINE DIMENSIONS

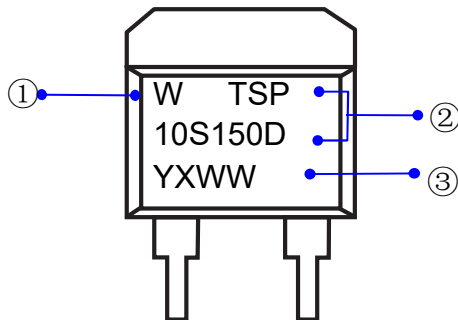
Note:unit In(mm)

TO-252



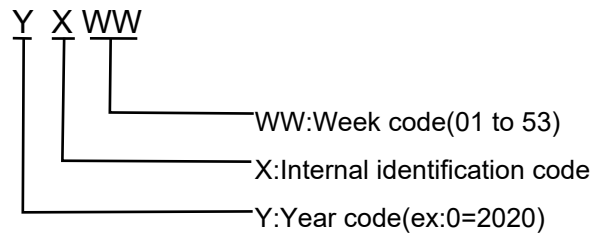
SYMBOL	MILLIMETER		
	MIN	Typ.	MAX
A	2.200	2.300	2.400
A1	0.000		0.127
b	0.700	0.800	0.900
c	0.460	0.520	0.580
D	6.500	6.600	6.700
D1	5.334 REF		
D2	4.826 REF		
D3	3.166 REF		
E	6.000	6.100	6.200
e	2.286 TYP		
h	0.000	0.100	0.200
L	9.900	10.100	10.300
L1	2.888 REF		
L2	1.400	1.550	1.700
L3	1.600 REF		
L4	0.600	0.800	1.000
ϕ	1.100	1.200	1.300
θ	0°		8°
θ_1	9° TYP		
θ_2	9° TYP		

Marking Information



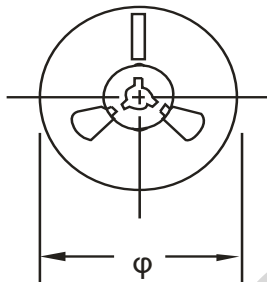
- ①W : Company's trademark
②Product model : TSP10S150D For TSP10S150D-S

③PDC information:

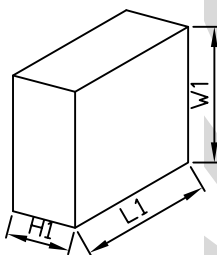


Packaging Information

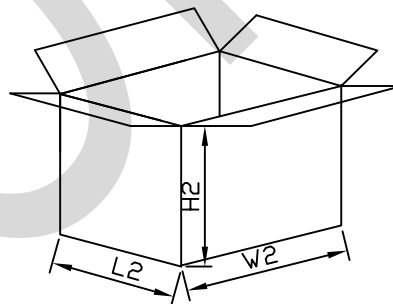
1.Reel Dimensions



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									