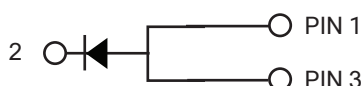
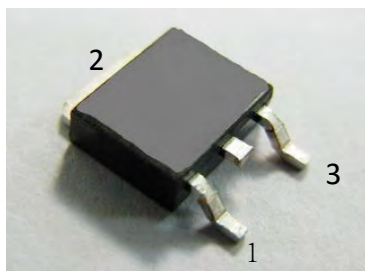


Trench MOS Barrier Schottky Rectifier

TSP20V80D-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 (TJ = 25°C unless otherwise noted)

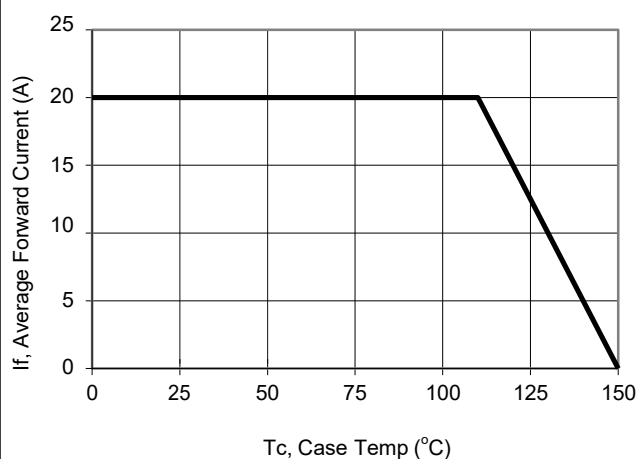
Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM	80		V
Maximum average forward rectified current	device	IF(AV)	20		A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode		IFSM	260		A
Operating junction and storage temperature range		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=3A	TJ=25°C	0.39	0.44	
	IF=3A	TJ=125°C	0.34	-	
	IF=20A	TJ=25°C	0.60	0.70	
	IF=20A	TJ=125°C	0.55	-	
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C		10	90	uA
	TJ=125°C		10	-	mA

Notes:

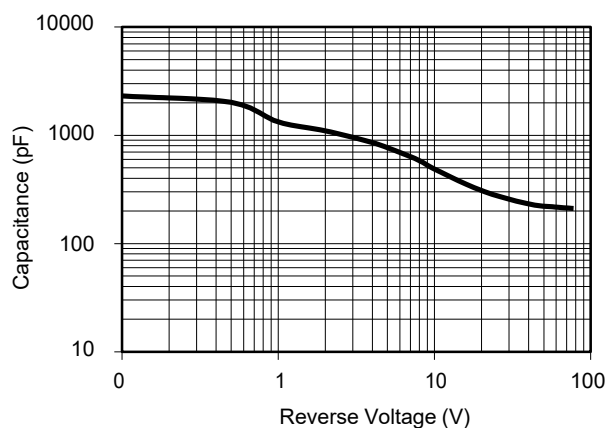
(1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

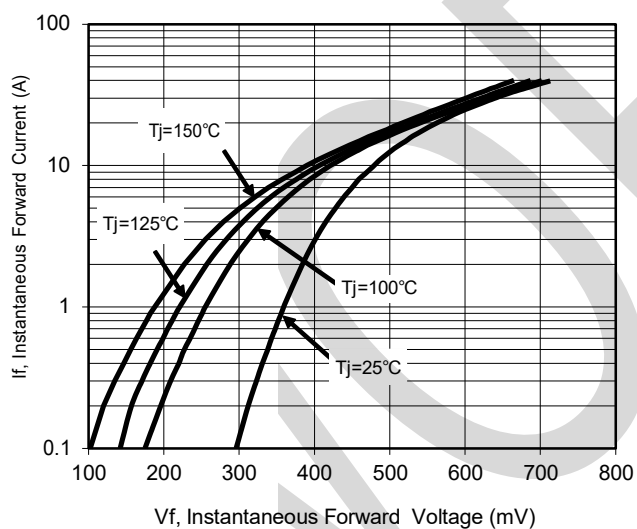
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



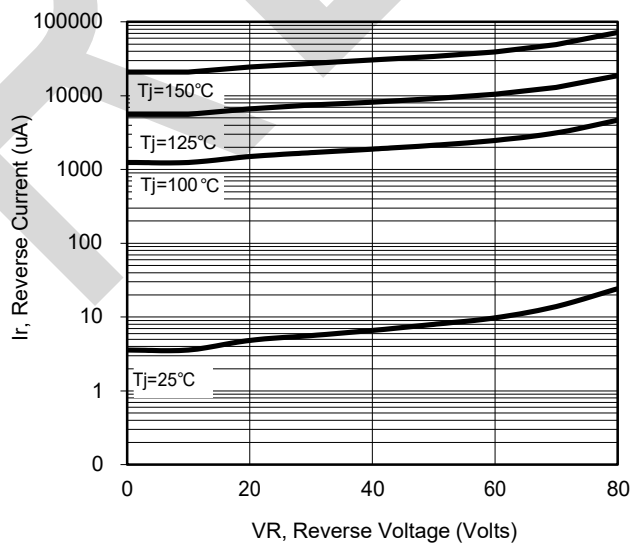
Current Derating, Case



Typical Junction Capacitance



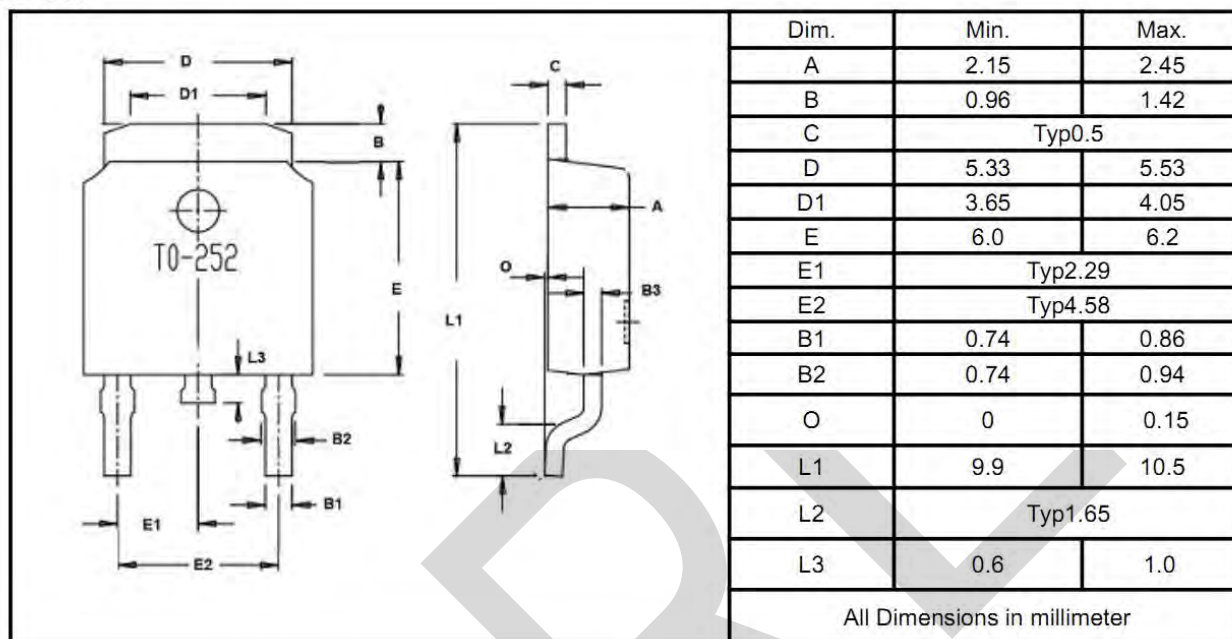
Typical Forward Voltage



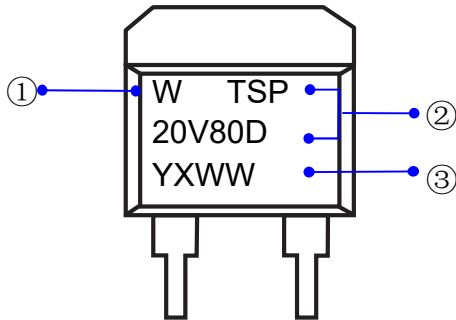
Typical Reverse Current

PACKAGE OUTLINE DIMENSIONS

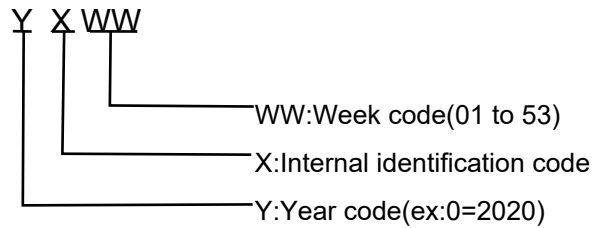
TO-252



Marking Information

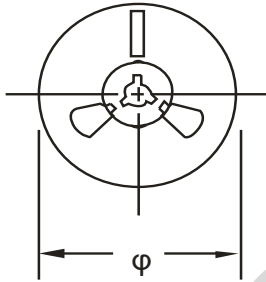


- ①W : Company's trademark
- ②Product model : TSP20V80D For TSP20V80D-S
- ③PDC information :

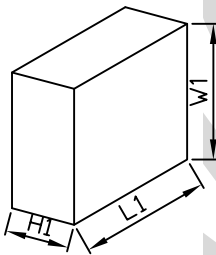


Packaging Information

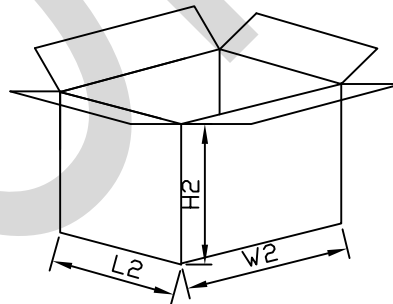
1.Reel Dimensions



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									