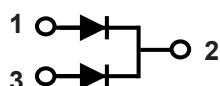
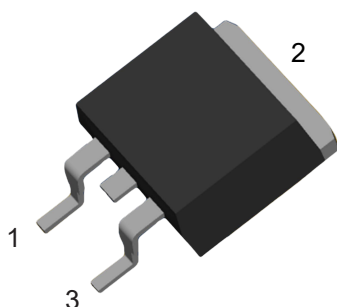


Trench MOS Barrier Schottky Rectifier

**TSR30P150CTB
TO-263**



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)

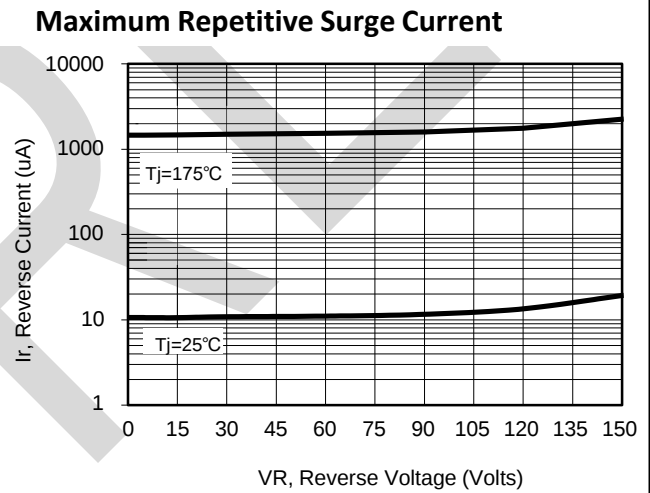
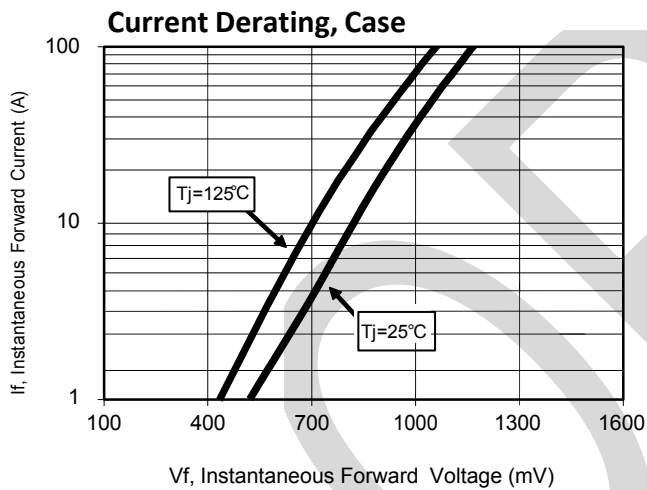
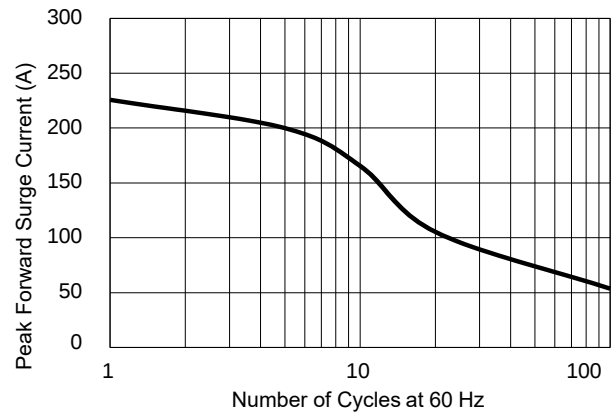
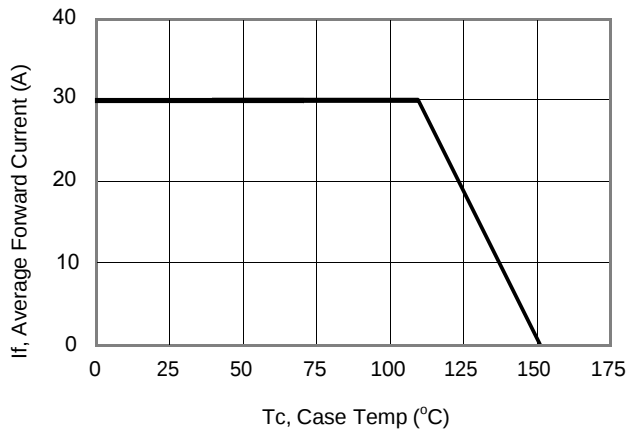
Parameter			Symbol	Limit		Unit
Maximum repetitive peak reverse voltage			VRRM	150		V
Maximum average forward rectified current	device		IF(AV)	30		A
	per diode			15		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode			IFSM	220		A
Operating junction and storage temperature range			TJ, TSTG	-50 to +175		°C
Typical thermal resistance per leg			RθJC	2		°C/W
Instantaneous forward voltage per diode			VF(1)	TYP.	MAX.	V
	IF=2A	TJ=25°C		0.60	0.62	
	IF=2A	TJ=125°C		0.55	-	
	IF=15A	TJ=25°C		0.80	0.86	
	IF=15A	TJ=125°C		0.72	-	
Instantaneous reverse current per diode at rated reverse voltage		TJ=25°C	IR(2)	1	10	uA
		TJ=125°C		1	-	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)



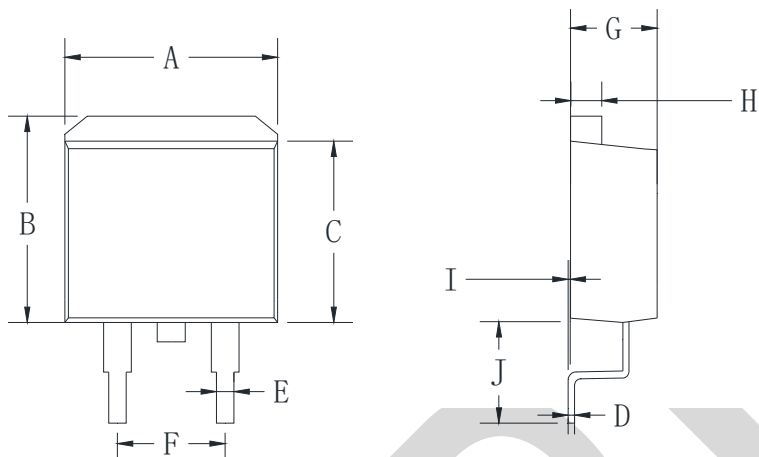
Typical Forward Voltage

Typical Reverse Current

PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

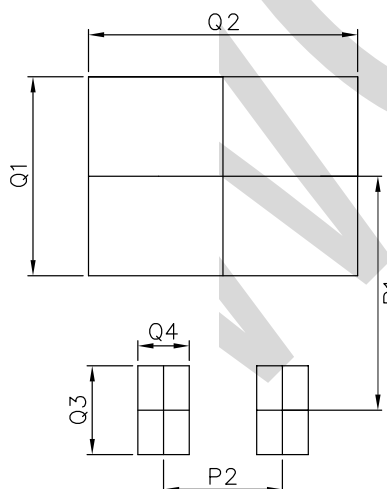
TO-263



TO-263 mechanical data

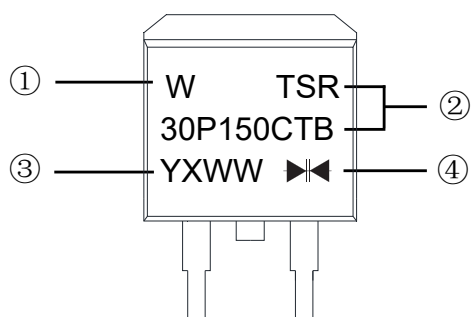
UNIT		A	B	C	D	E	F	G	H	I	J
mm	max	11.5	10.5	9.0	0.64	0.94	5.6	5.1	1.4	0.6	6.1
	min	9.5	9.7	8.4	0.28	0.68	4.5	4.0	1.1	0.02	4.9
mil	max	452.7	413.3	354.3	25.2	37.0	220.5	200.8	55.1	23.6	240.1
	min	374.0	381.8	330.7	11.0	26.7	177.2	157.5	43.3	0.78	192.9

TO-263 Suggested Pad Layout



UNIT		P1	P2	Q1	Q2	Q3	Q4
mm	min	10.0	4.00	8.5	11.5	3.8	2.1
mil	min	393.3	157.5	39.37	334.6	149.6	82.7

Marking Information



①W : Company's trademark

②Product model : TSR30P150CTB

③PDC information:

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)

④  Double wafer