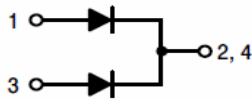
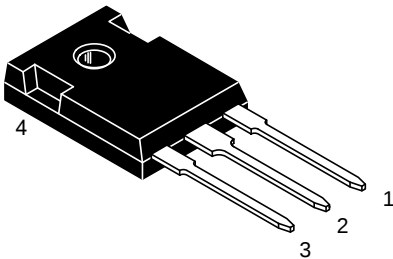


Trench Barrier Schottky Rectifier

TSR40S150PT

TO-247



Product Character

- Half Bridge Rectified、Common Cathode Structure.
- Multilayer Metal -Silicon Potential Structure.
- Beautiful High Temperature Character.
- Have Over Voltage protect loop, high reliability.
- RoHs Product.

Primary Use

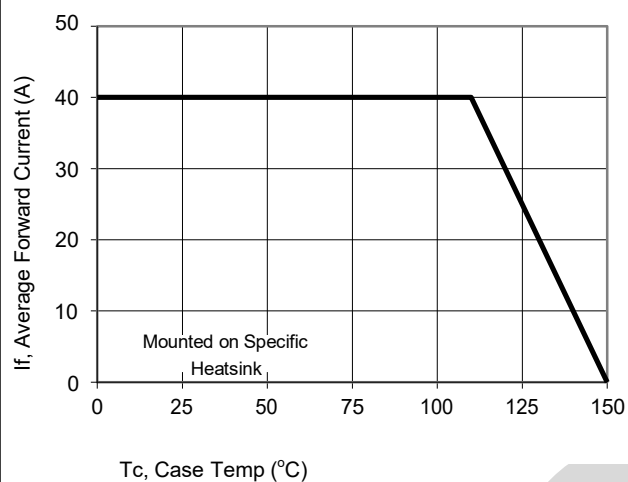
- Low Voltage High Frequency Switching Power Supply.
- Low Voltage High Frequency Invers Circuit.
- Low Voltage Continued Circuit and Protection Circuit.

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

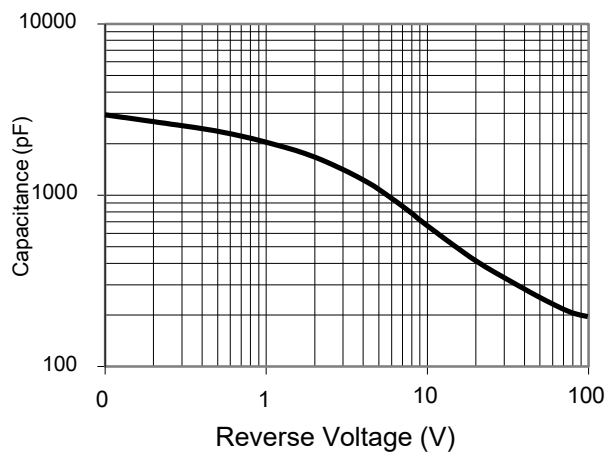
Parameter			Symbol	Limit		Unit
Maximum repetitive peak reverse voltage			V _{RRM}	150		V
Maximum average forward rectified current	per device		I _{F(AV)}	40		A
	per diode			20		
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load per diode			I _{FSM}	220		A
Operating junction and storage temperature range			T _J , T _{STG}	-50 to +150		℃
Typical thermal resistance per leg		TO-247	R _{θJC}	2		℃/W
Instantaneous forward voltage per diode			V _{F(1)}	TYP.	MAX.	V
	I _F =5A	T _J =25℃		0.58	0.65	
	I _F =20A			1.00	1.20	
	I _F =5A	T _J =125℃		0.53	0.60	
	I _F =20A			0.86	1.00	
Instantaneous reverse current per diode at rated reverse voltage		T _J =25℃	I _{R(2)}	-	50	uA
		T _J =125℃		-	10	mA

I_{F(AV)} = 20A×2

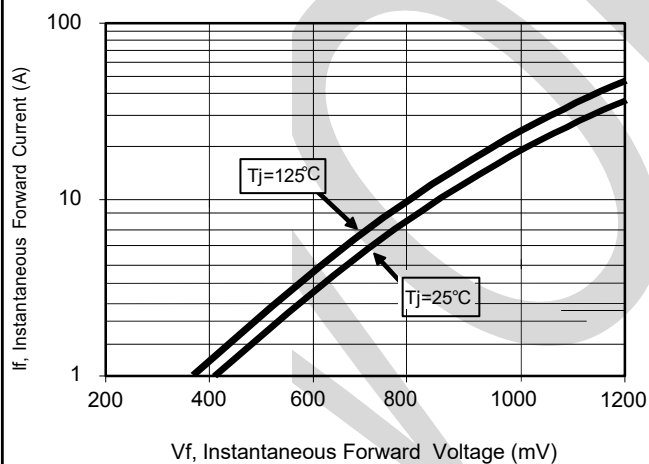
Characteristic Curves



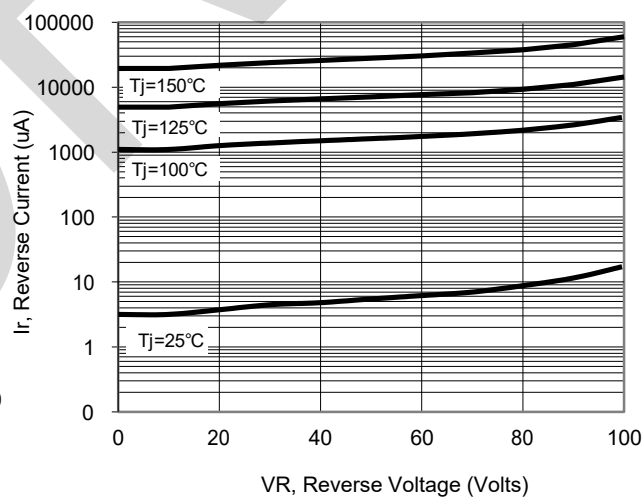
Current Derating, Case



Typical Junction Capacitance



Typical Forward Voltage

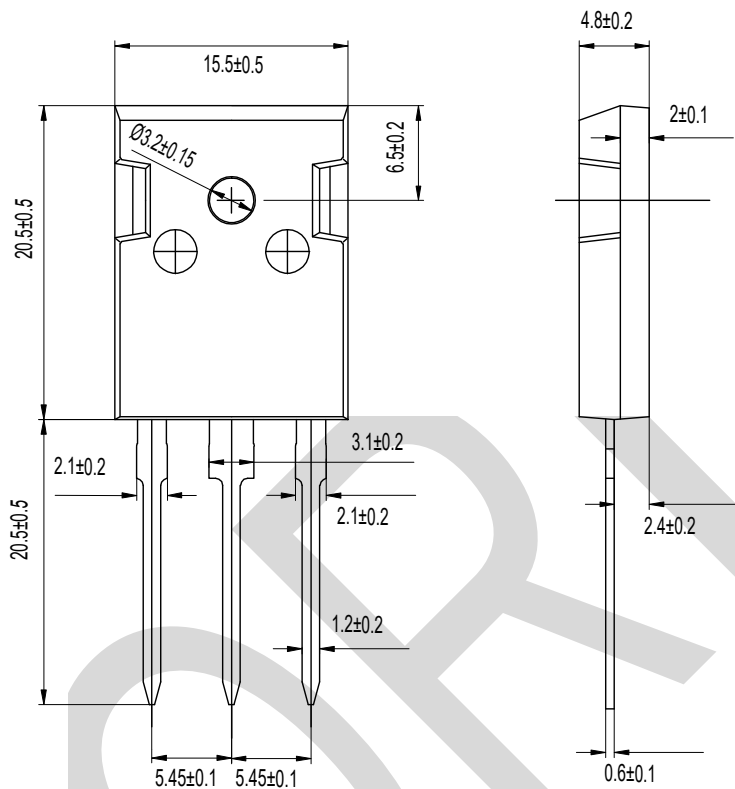


Typical Reverse Current

PACKAGE OUTLINE DIMENSIONS

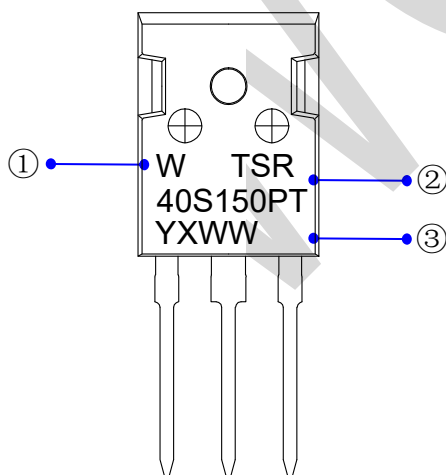
Note:unit: mm

TO-247



Dimensions in millimeters

Marking Information



- ① W : Company's trademark
- ② Product model : TSR40S150PT
- ③ PDC information:

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)