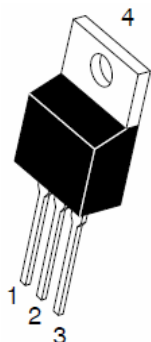
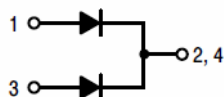
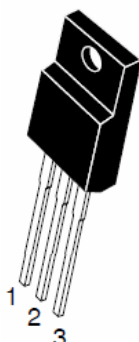


Trench MOS Barrier Schottky Rectifier

TSR40S150CT
TO-220AB



TSR40S150CTF
TO-220F



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)	40		A
	per diode			20		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode			IFSM	250		A
Operating junction and storage temperature range			TJ, TSTG	-65 to +150		°C
Typical thermal resistance per leg	TO-220AB		RθJC	2		°C/W
	ITO-220AB			4		°C/W
Instantaneous forward voltage per diode			VF(1)	TYP.	MAX.	V
	IF=2A	TJ=25°C		0.45	0.48	
	IF=2A	TJ=125°C		0.40	-	
	IF=20A	TJ=25°C		0.96	1.00	
	IF=20A	TJ=125°C		0.90	-	
Instantaneous reverse current per diode at rated reverse voltage		TJ=25°C	IR(2)	10	50	uA
		TJ=125°C		-	10	mA

Notes:

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

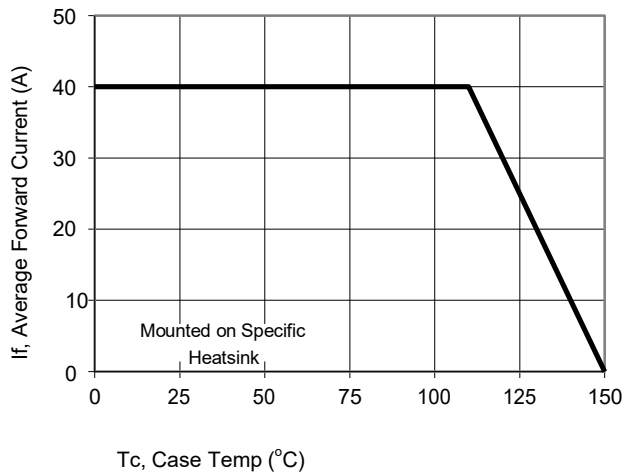
(2) Pulse test: Pulse width ≤ 40 ms

TSR40S150CT

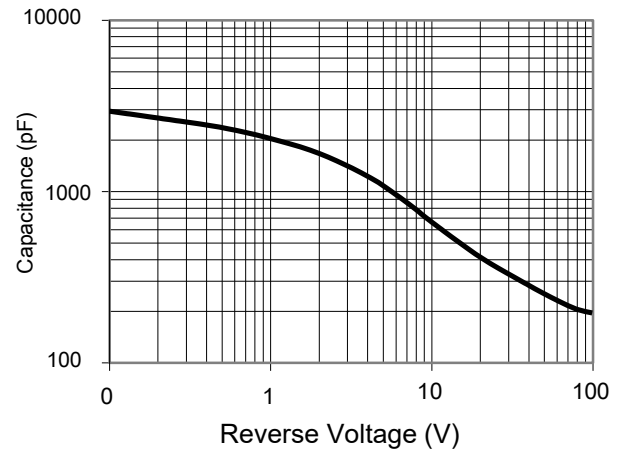
TSR40S150CTF

23-NOV-2017

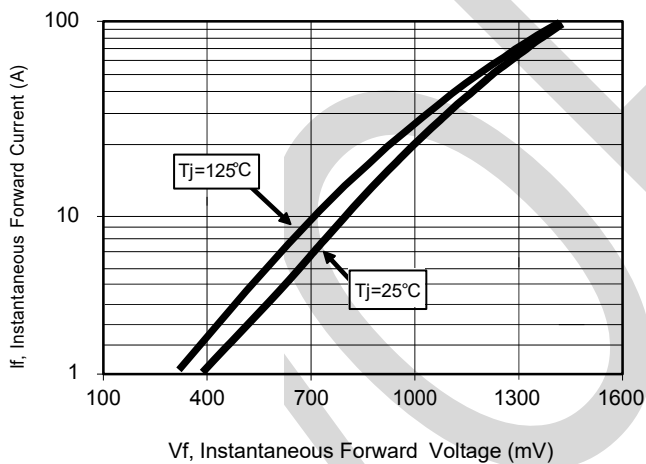
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



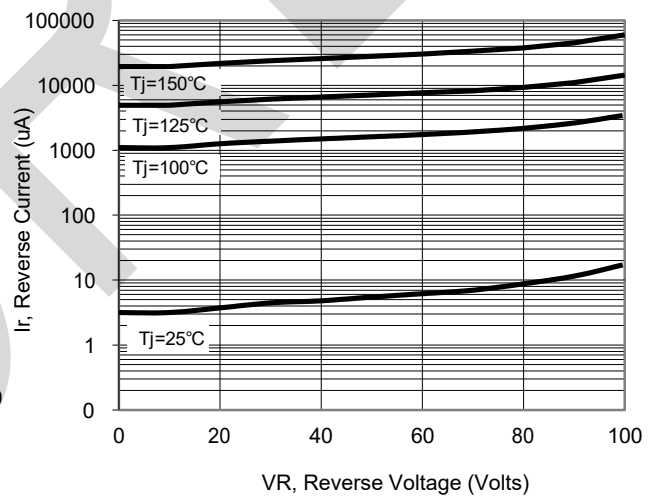
Current Derating, Case



Typical Junction Capacitance



Typical Forward Voltage

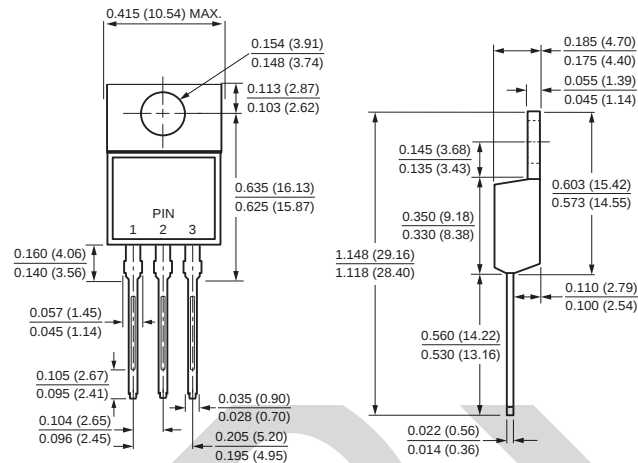


Typical Reverse Current

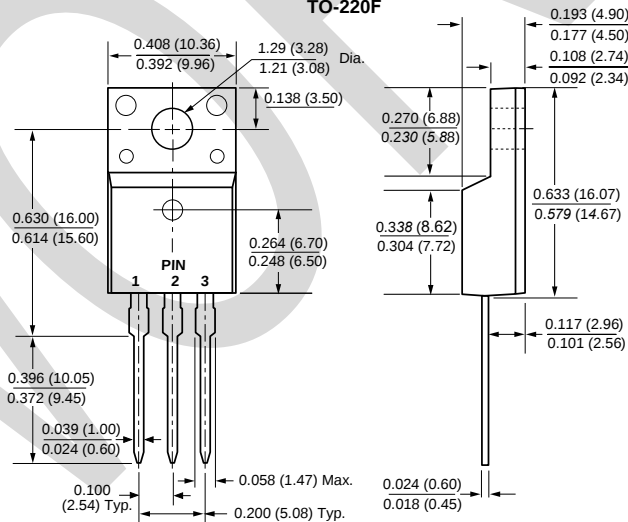
PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

TO-220AB



TO-220F

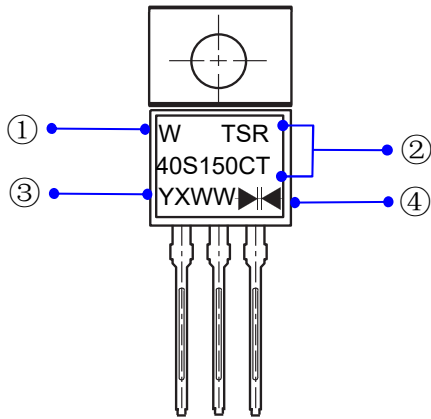


TSR40S150CT

TSR40S150CTF

23-NOV-2017

Marking Information



- ①W : Company's trademark
- ②Product model : TSR40S150CT or TSR40S150CTF
- ③PDC information:

Y X WW

WW:Week code(01 to 53)

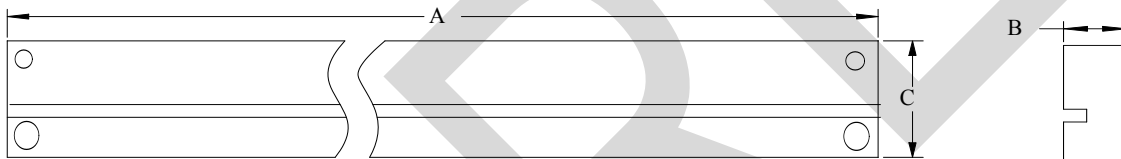
X:Internal identification code

Y:Year code(ex:0=2020)

- ④  Double wafer

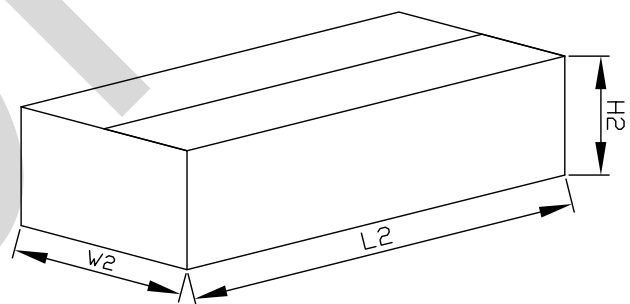
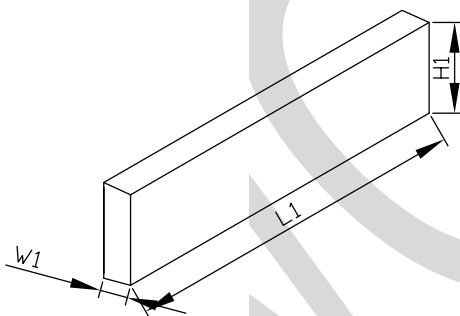
Packaging Information

1.Tube Dimensions



2.Inside Box

3.Outside Box



Packaging Information

NO	UNIT	Tube Dimensions			Inside Box			Outside Box		
Size	mm	A	B	C	L1	W1	H1	L2	W2	H2
		530	7	33	570	46	150	590	260	180
QTY	PCS	50PCS/Tube			Smallest package,1000PCS, 20 tube in total			5,000PCS/carton,5 boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									