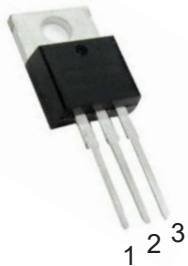
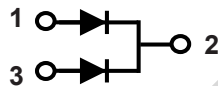
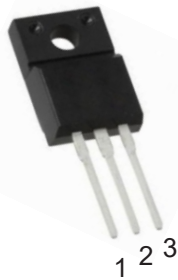


Trench MOS Barrier Schottky Rectifier

TO-220AB
TSR30L100CT-A



TO-220F
TSR30L100CTF-A



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)

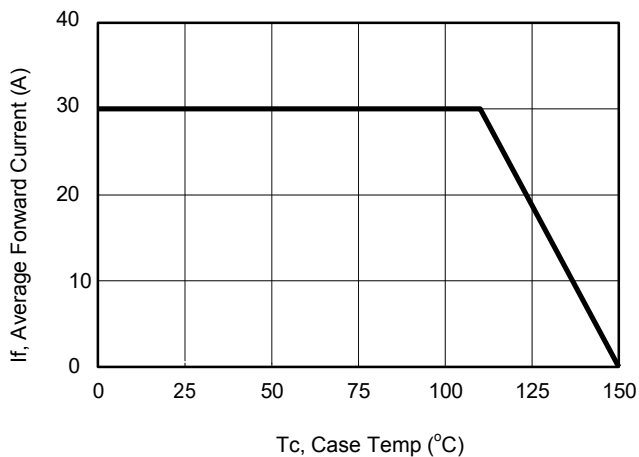
Parameter			Symbol	Limit		Unit
Maximum repetitive peak reverse voltage			VRRM	100		V
Maximum average forward rectified current	total		IF(AV)	30		A
	per diode			15		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode			IFSM	220		A
Operating junction and storage temperature range			T _J , T _{STG}	-55 ~ +150		°C
Typical thermal resistance per leg	TO-220AB		R _{θJC}	2		°C/W
	TO-220F			4		°C/W
Instantaneous forward voltage per diode			VF(1)	TYP.	MAX.	V
	IF=2A	TJ=25°C		0.43	0.53	
	IF=2A	TJ=125°C		0.37	-	
	IF=15A	TJ=25°C		0.73	0.78	
	IF=15A	TJ=125°C		0.68	-	
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C		IR(2)	10	50	uA
	TJ=125°C			10	-	mA

Notes:

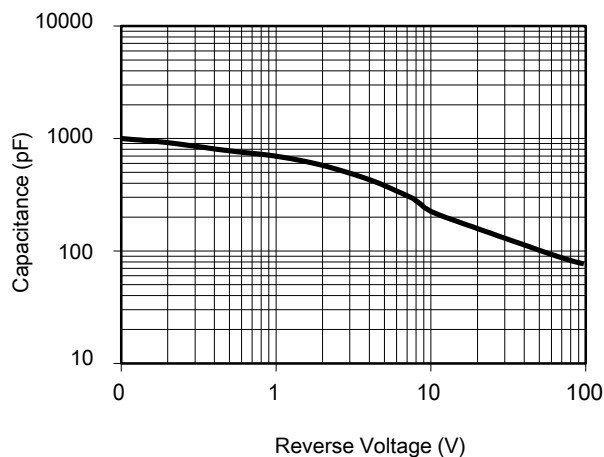
(1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

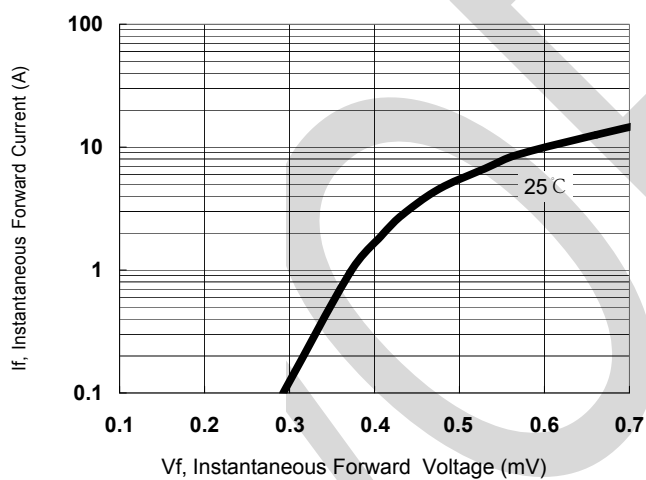
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



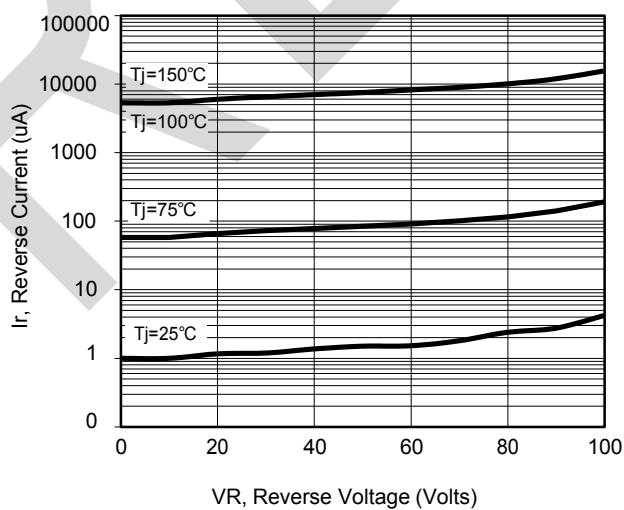
Current Derating, Case



Typical Junction Capacitance



Typical Forward Voltage

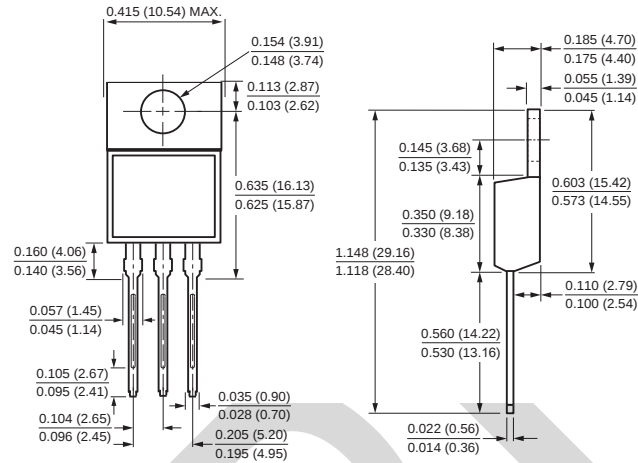


Typical Reverse Current

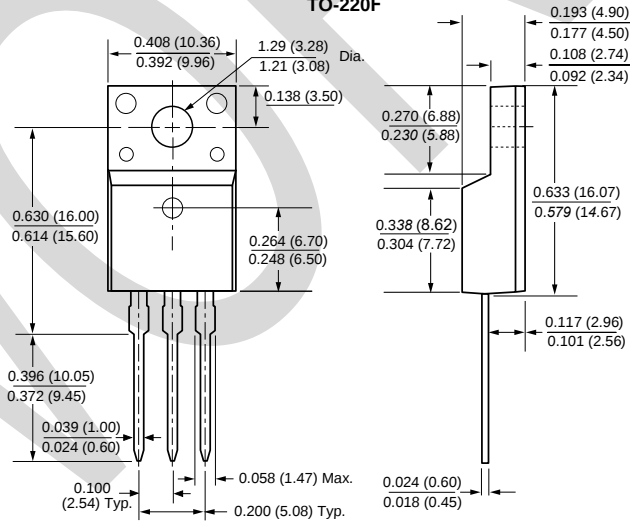
PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

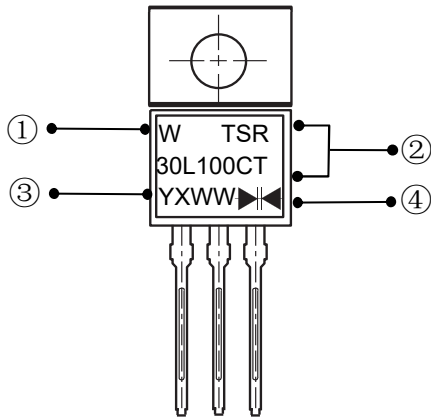
TO-220AB



TO-220F



Marking Information



- ①W : Company's trademark
- ②Product model : TSR30L100CT or TSR30L100CTF
- ③PDC information :

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)

- ④  Double wafer