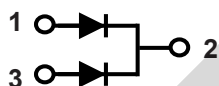
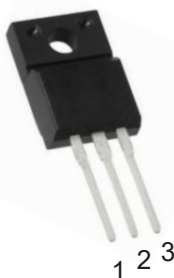


Trench MOS Barrier Schottky Rectifier

TO-220AB
TSR20L300CT



TO-220F
TSR20L300CTF



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	300		V
Maximum average forward rectified current		tatol	IF(AV)	20		A
		per diode		10		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode			IFSM	280		A
Operating junction and storage temperature range			T _J , T _{STG}	-55 to +150		°C
Typical thermal resistance per leg		TO-220AB	R _{θJC}	2		°C/W
		TO-220F		4		°C/W
Instantaneous forward voltage per diode				TYP.	MAX.	V
				0.72	0.78	
				0.66	-	
				0.82	0.86	
				0.75	-	
Instantaneous reverse current per diode at rated reverse voltage		TJ=25°C	IR(2)	1	50	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)

FIG.1-Current Derating, Case

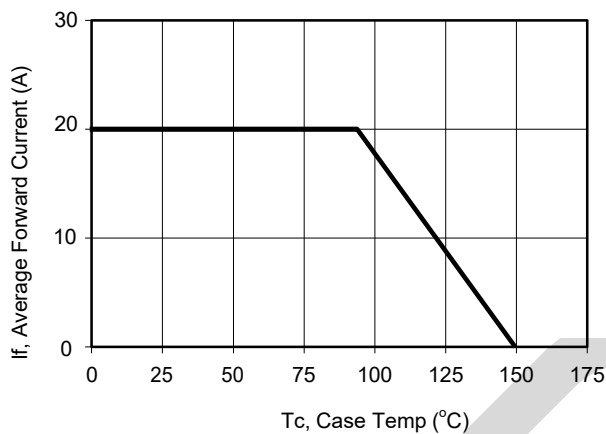


FIG.2-Maximum Repetitive Surge Current

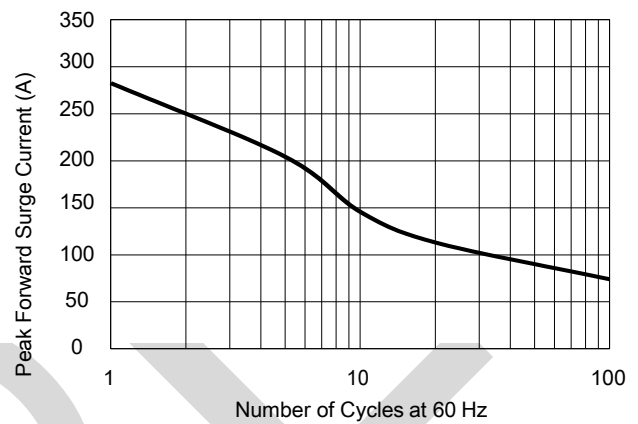


FIG.3-Typical Forward Voltage

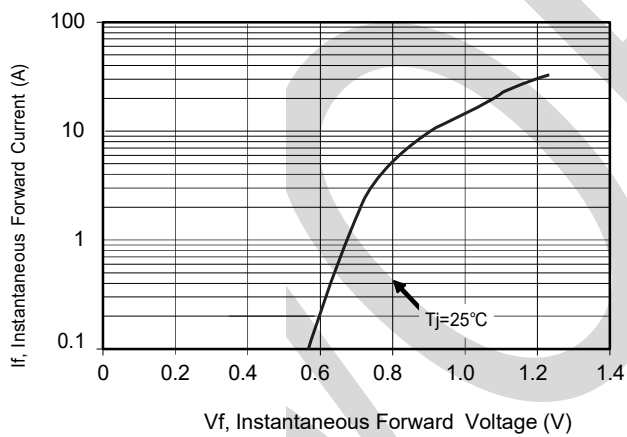
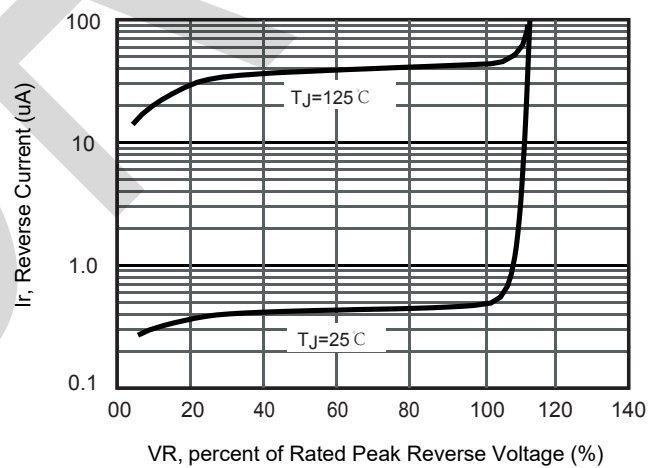


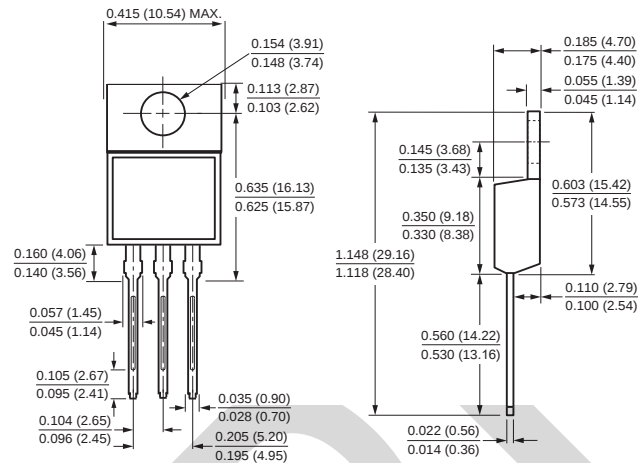
FIG.4-Typical Reverse Current



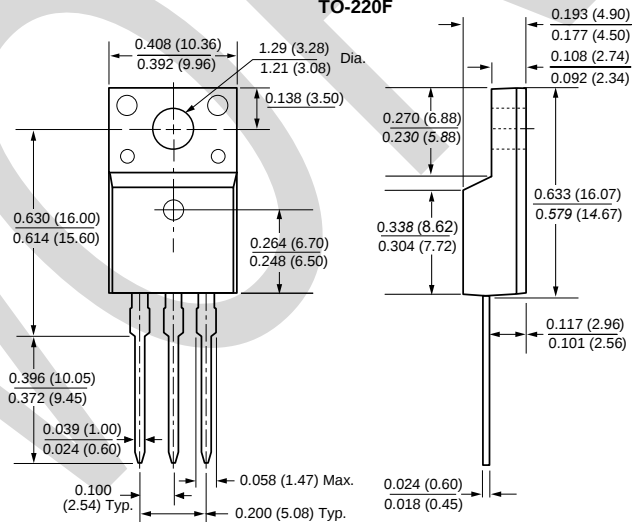
PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

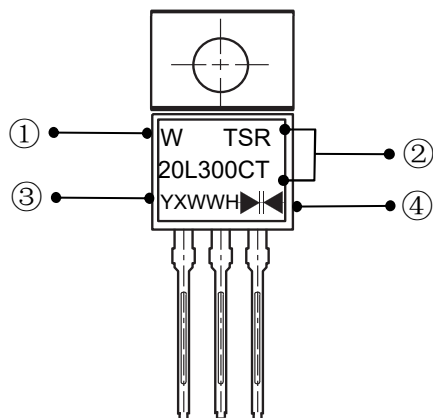
TO-220AB



TO-220F



Marking Information



①W : Company's trademark

②Product model : TSR20L300CT or TSR20L300CTF

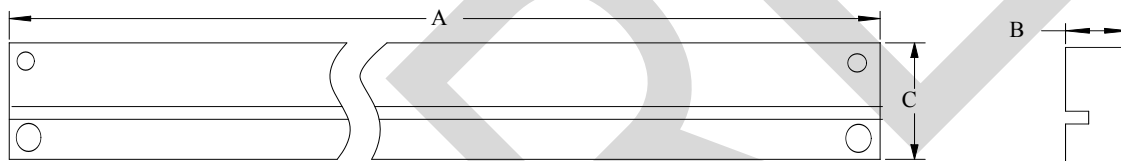
③PDC information :

Y X WW H
 Y:Year code(ex:0=2020)
 X:Internal identification code
 WW:Week code(01 to 53)
 H::Halogen-free

④ Double wafer

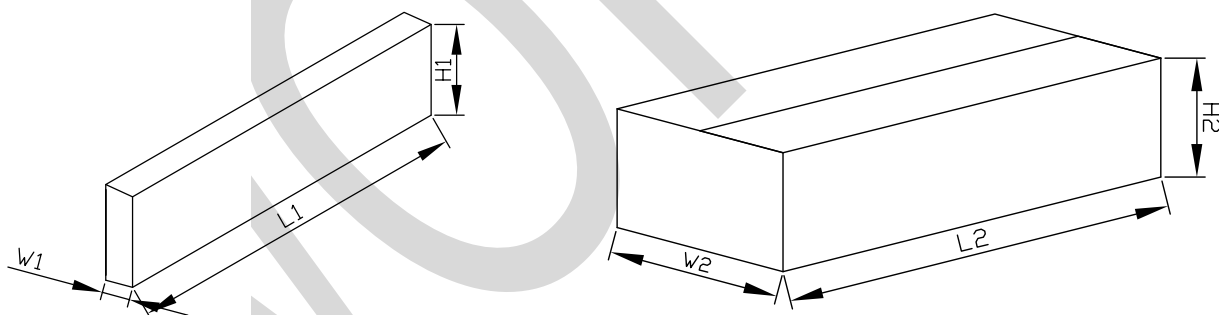
Packaging Information

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									