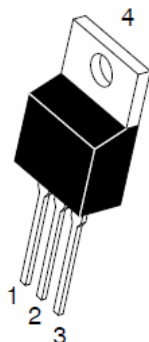
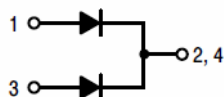
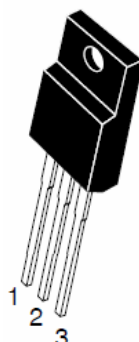


Trench MOS Barrier Schottky Rectifier

TO-220AB
TSR20L100CT



ITO-220AB
TSR20L100CTF



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)

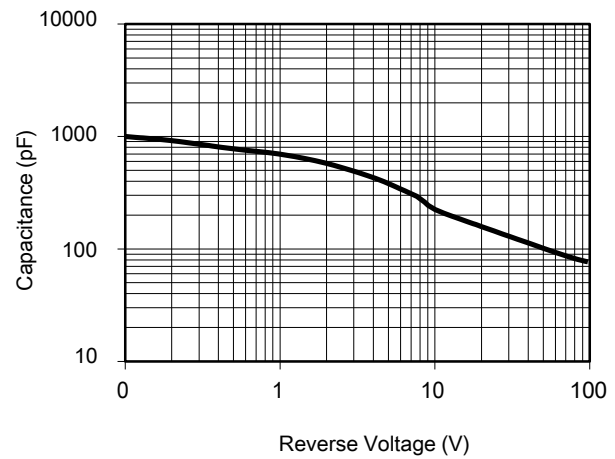
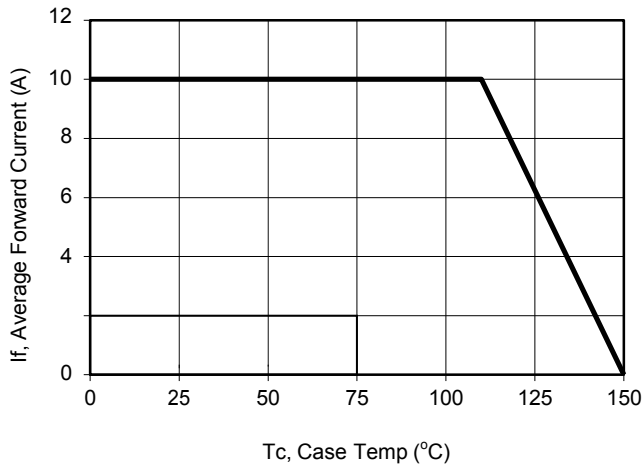
Parameter			Symbol	Limit		Unit
Maximum repetitive peak reverse voltage			VRRM	100		V
Maximum average forward rectified current	device		IF(AV)	20		A
	per diode			10		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode			IFSM	160		A
Operating junction and storage 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		0.50	-	
	IF=2A	TJ=125°C		0.42	-	
	IF=10A	TJ=25°C		0.71	0.78	
	IF=10A	TJ=125°C		0.64	-	
Instantaneous reverse current per diode at rated reverse voltage		TJ=25°C	IR(2)	-	50	uA
		TJ=125°C		-	20	mA

Notes:

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

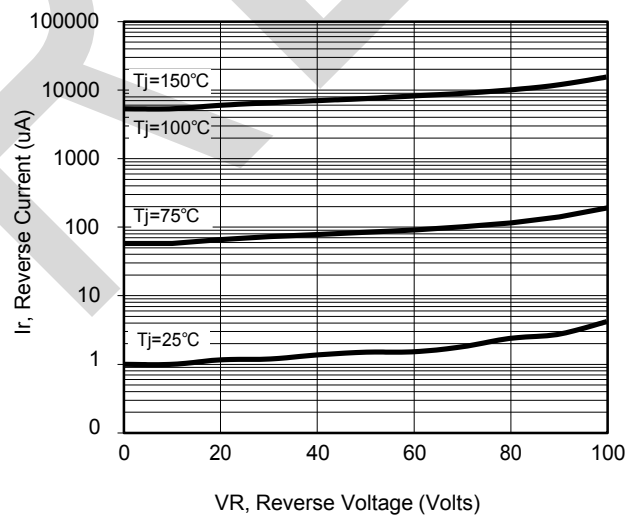
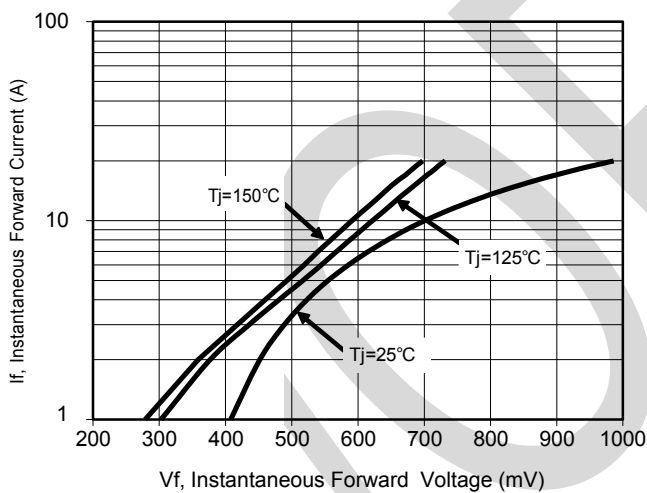
(2) Pulse test: Pulse width ≤ 40 ms

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



Current Derating, Case

Typical Junction Capacitance



Typical Forward Voltage

Typical Reverse Current

Note:unit In(mm)

Technical drawing of a 3-pin connector. The drawing shows a top view and a side view. The top view includes dimensions for the overall width (0.415 (10.54) MAX.), the distance from the centerline to the edge of the top flange (0.154 (3.91) and 0.148 (3.74)), the distance from the centerline to the center of the pin holes (0.113 (2.87) and 0.103 (2.62)), the distance from the top flange to the pin holes (0.635 (16.13) and 0.625 (15.87)), and the distance between the pin holes (0.160 (4.06) and 0.140 (3.56)). The side view shows dimensions for the overall height (1.148 (29.16) and 1.118 (28.40)), the distance from the top flange to the pin holes (0.145 (3.68) and 0.135 (3.43)), the distance from the top flange to the bottom of the connector (0.350 (9.18) and 0.330 (8.38)), the distance from the top flange to the center of the pin holes (0.603 (15.42) and 0.573 (14.55)), the distance from the top flange to the bottom of the pin holes (0.110 (2.79) and 0.100 (2.54)), the distance from the top flange to the bottom of the connector (0.560 (14.22) and 0.530 (13.16)), and the distance from the top flange to the bottom of the connector (0.022 (0.56) and 0.014 (0.36)). The drawing also includes a label 'PIN' and a label '1 2 3' indicating the pin positions.

Technical drawing of the ITO-220AB component, showing front and side views with dimensions in inches and millimeters.

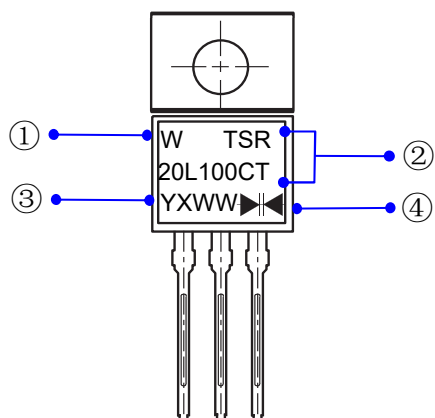
Front View Dimensions:

- Top width: 0.408 (10.36)
- Inner top width: 0.392 (9.96)
- Top hole diameter: 1.29 (3.28)
- Inner top hole diameter: 1.21 (3.08)
- Top hole offset: 0.138 (3.50)
- Pin 1 offset: 0.630 (16.00)
- Pin 2 offset: 0.614 (15.60)
- Pin 3 offset: 0.264 (6.70)
- Pin 4 offset: 0.248 (6.50)
- Pin 1 diameter: 0.039 (1.00)
- Pin 2 diameter: 0.024 (0.60)
- Pin 3 diameter: 0.058 (1.47) Max.
- Pin 4 diameter: 0.200 (5.08) Typ.
- Pin 1 to Pin 2 distance: 0.100 (2.54) Typ.
- Pin 2 to Pin 3 distance: 0.200 (5.08) Typ.

Side View Dimensions:

- Top width: 0.193 (4.90)
- Inner top width: 0.177 (4.50)
- Inner top hole diameter: 0.108 (2.74)
- Inner top hole offset: 0.092 (2.34)
- Top hole diameter: 0.270 (6.88)
- Inner top hole diameter: 0.230 (5.88)
- Pin 1 offset: 0.633 (16.07)
- Pin 2 offset: 0.579 (14.67)
- Pin 3 offset: 0.338 (8.62)
- Pin 4 offset: 0.304 (7.72)
- Pin 1 diameter: 0.117 (2.96)
- Pin 2 diameter: 0.101 (2.56)
- Pin 3 diameter: 0.024 (0.60)
- Pin 4 diameter: 0.018 (0.45)

Marking Information



- ①W : Company's trademark
- ②Product model : TSR20L100CT or TSR20L100CTF
- ③PDC information :

Y X WW

WW:Week code(01 to 53)

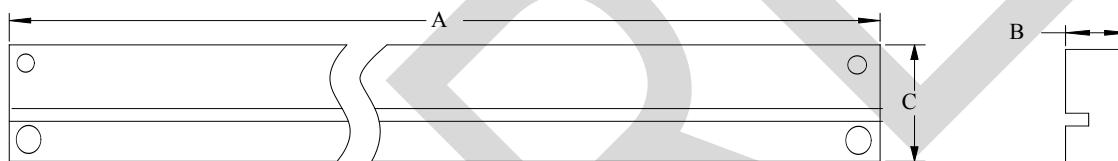
X:Internal identification code

Y:Year code(ex:0=2020)

- ④  Double wafer

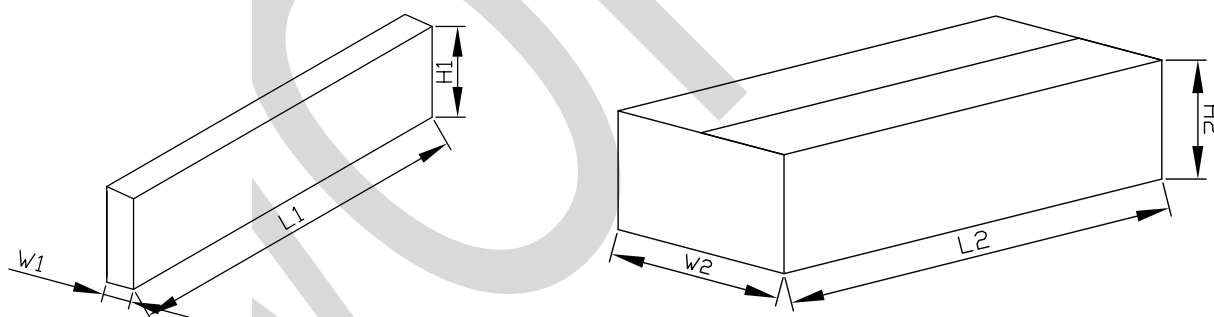
Packaging Information

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									