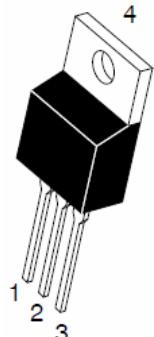
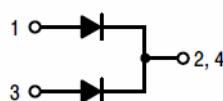
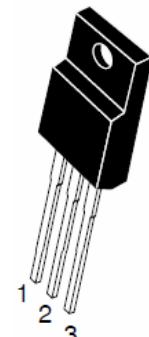


Trench MOS Barrier Schottky Rectifier

TO-220AB
TSR30L45CT



ITO-220AB
TSR30L45CTF



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 ($T_J = 25^\circ\text{C}$ unless otherwise noted)

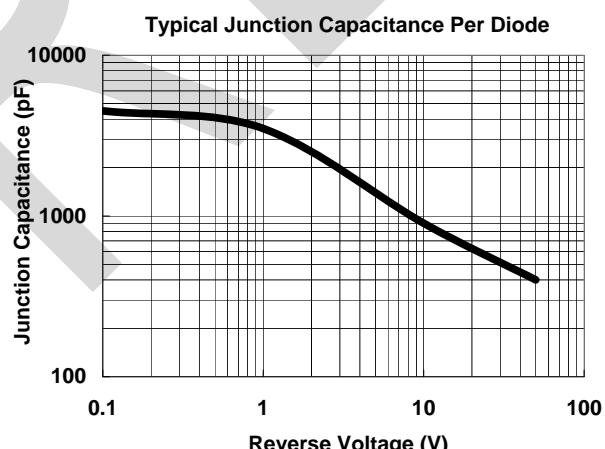
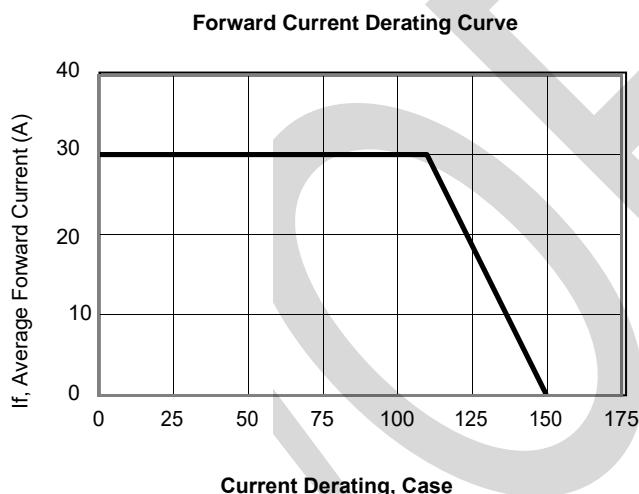
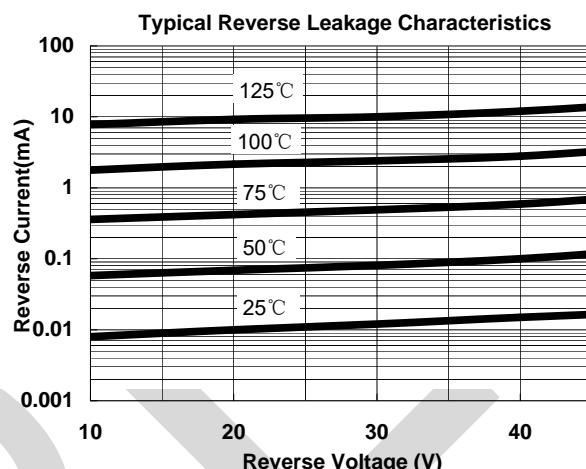
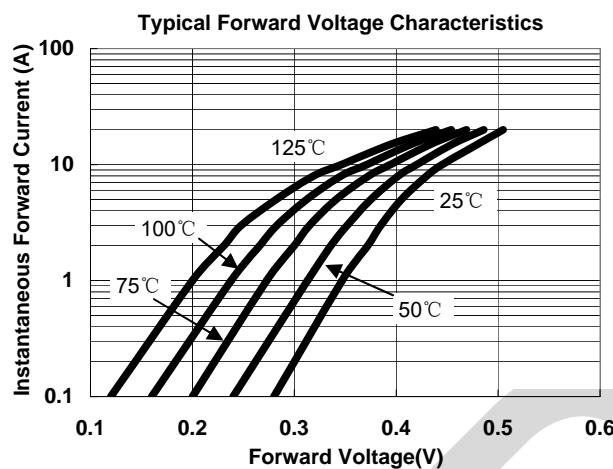
Parameter	Symbol	Limit		Unit
Maximum repetitive peak reverse voltage	VRRM	45		V
Maximum average forward rectified current	device	IF(AV)	30	A
	per diode		15	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load per diode	IFSM	280		A
Operating junction and storage temperature range	T_J , TSTG	-40 to +150		$^\circ\text{C}$
Typical thermal resistance per leg	TO-220AB	R θ J _C	2	$^\circ\text{C}/\text{W}$
	ITO-220AB		4	$^\circ\text{C}/\text{W}$
Instantaneous forward voltage per diode		VF(1)	TYP.	MAX.
	IF=3A $T_J=25^\circ\text{C}$		0.35	0.40
	IF=3A $T_J=125^\circ\text{C}$		0.30	-
	IF=15A $T_J=25^\circ\text{C}$		0.46	0.55
	IF=15A $T_J=125^\circ\text{C}$		0.40	-
Instantaneous reverse current per diode at rated reverse voltage	$T_J=25^\circ\text{C}$	IR(2)	50	120
	$T_J=125^\circ\text{C}$		-	30 mA

Notes:

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

(2) Pulse test: Pulse width ≤ 40 ms

RATINGS AND CHARACTERISTICS CURVES ($T_A = 25^\circ\text{C}$ unless otherwise noted)



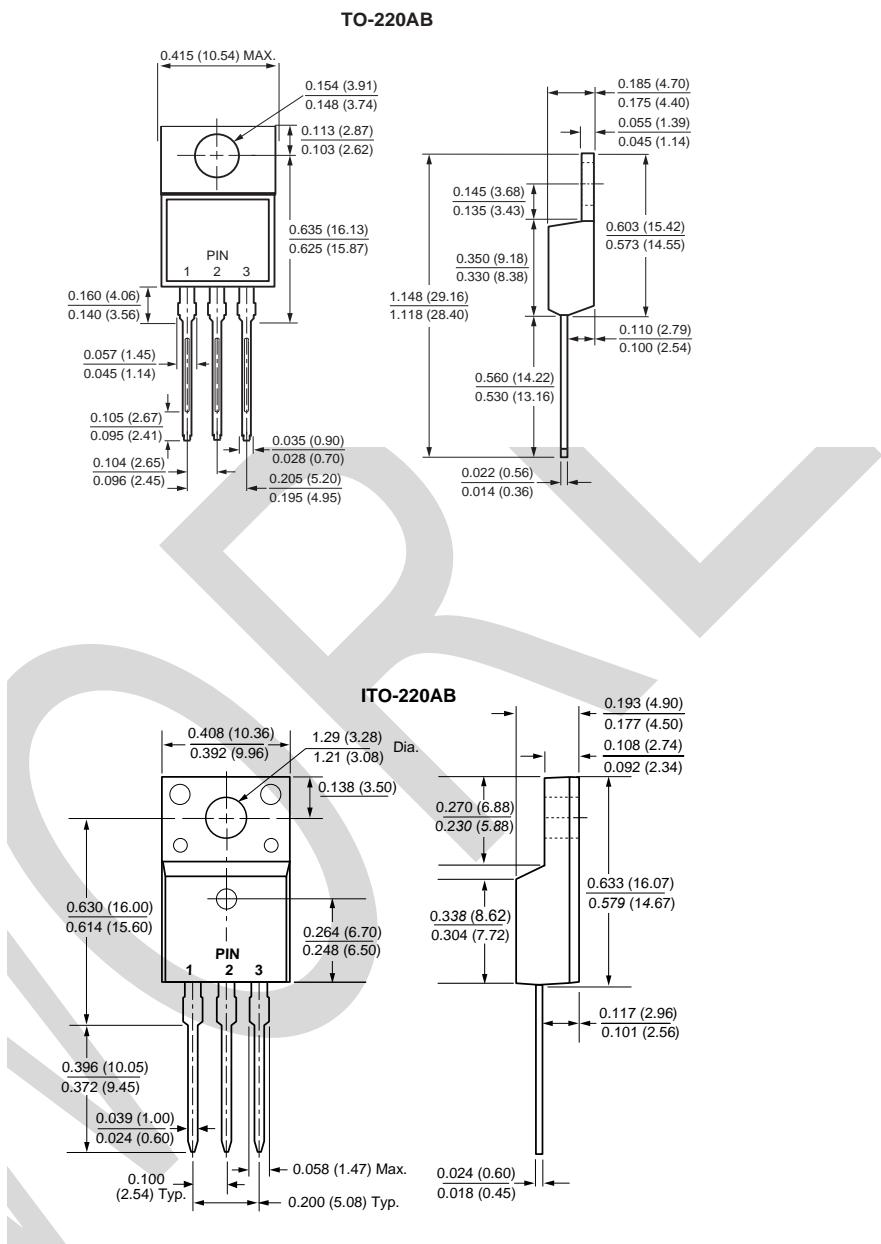


TSR30L45CT
TSR30L45CTF

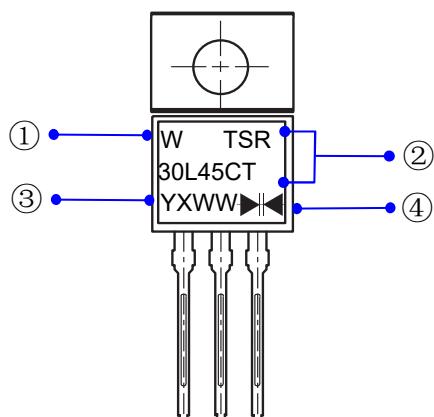
23-NOV-2019

PACKAGE OUTLINE DIMENSIONS

Note: unit In(mm)



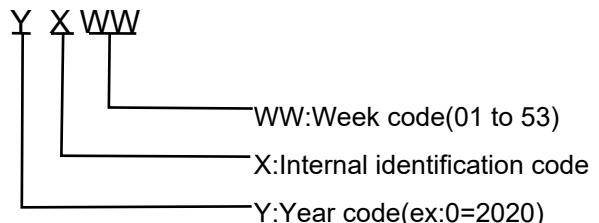
Marking Information



① W : Company's trademark

② Product model : TSR30L45CT or TSR30L45CTF

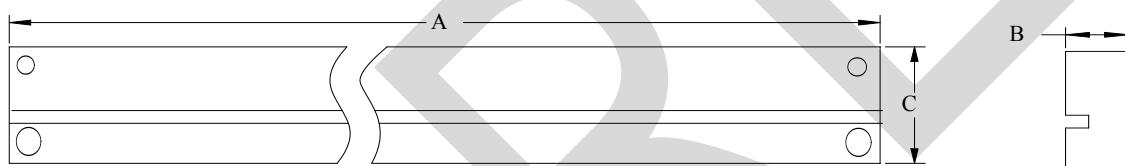
③ PDC information :



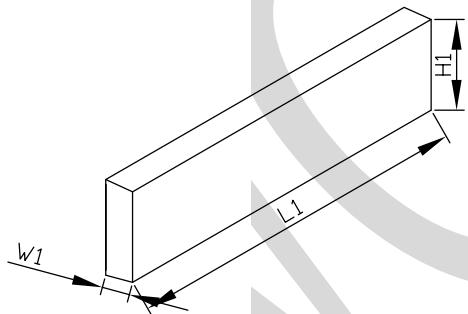
④ ►► Double wafer

Packaging Information

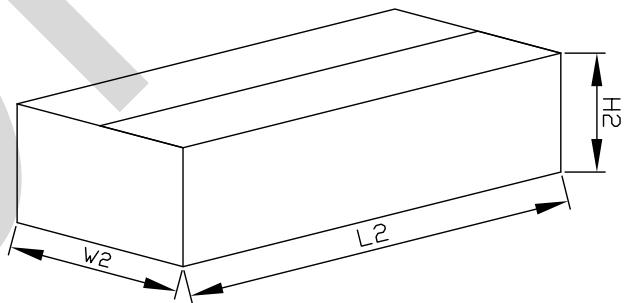
1.Tube Dimensions



2.Inside Box



3.Outside Box



Packaging Information

NO	UNIT	Tube Dimensions			Inside Box			Outside Box		
		A	B	C	L1	W1	H1	L2	W2	H2
Size	mm	530	7	33	570	46	150	590	260	180
		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			