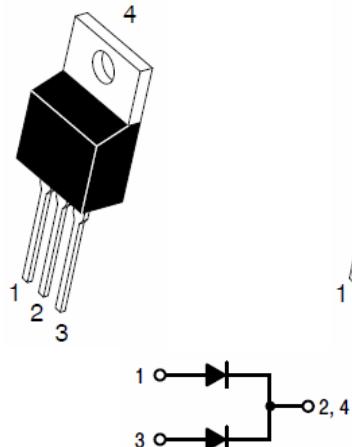
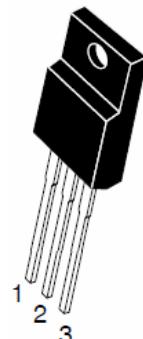


Trench MOS Barrier Schottky Rectifier

TSR60L45CT
TO-220AB



TSR60L45CTF
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 (TJ = 25°C unless otherwise noted)

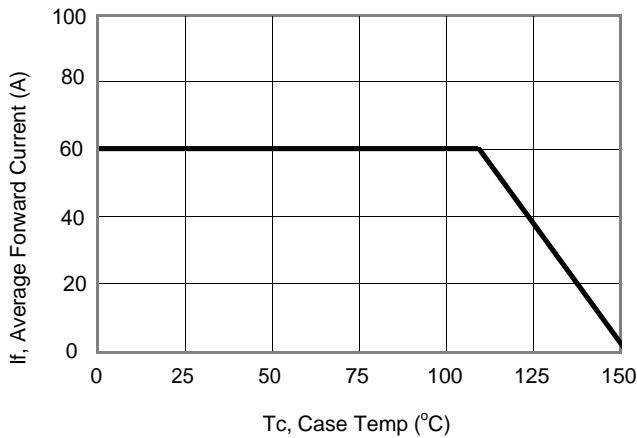
Parameter	Symbol	Limit		Unit
Maximum repetitive peak reverse voltage	VRRM	45		V
Maximum average forward rectified current	device	IF(AV)	60	A
	per diode		30	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load per diode	IFSM	350		A
Operating junction and storage temperature range	TJ, TSTG	-50 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		VF(1)	TYP.	MAX.
	IF=3A TJ=25°C		0.40	0.45
	IF=3A TJ=125°C		0.35	-
	IF=30A TJ=25°C		0.55	0.60
	IF=30A TJ=125°C		0.50	-
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C	IR(2)	10	100
	TJ=125°C		10	-
				mA

Notes:

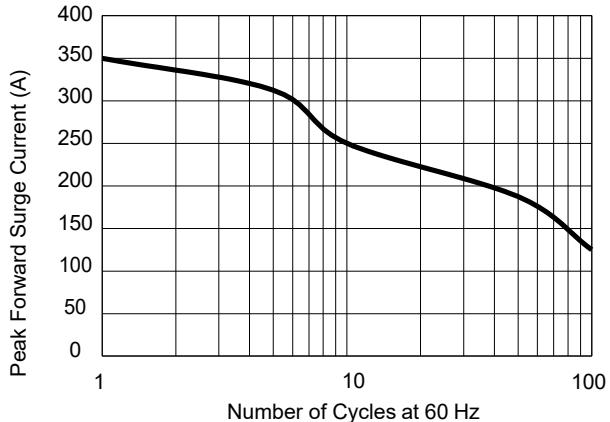
(1) Pulse test: 300 µs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

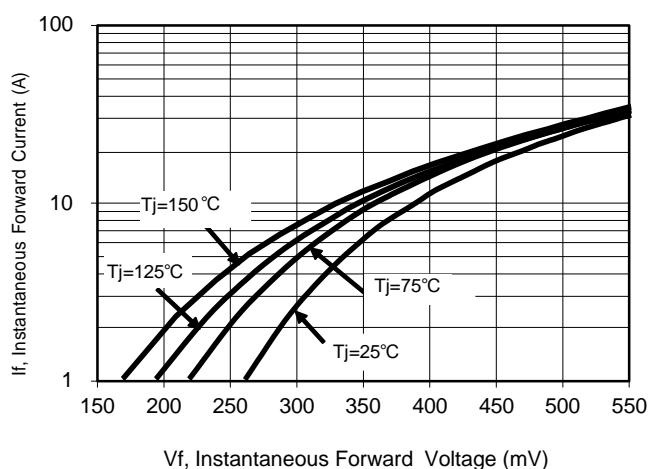
RATINGS AND CHARACTERISTICS CURVES ($T_A = 25^\circ\text{C}$ unless otherwise noted)



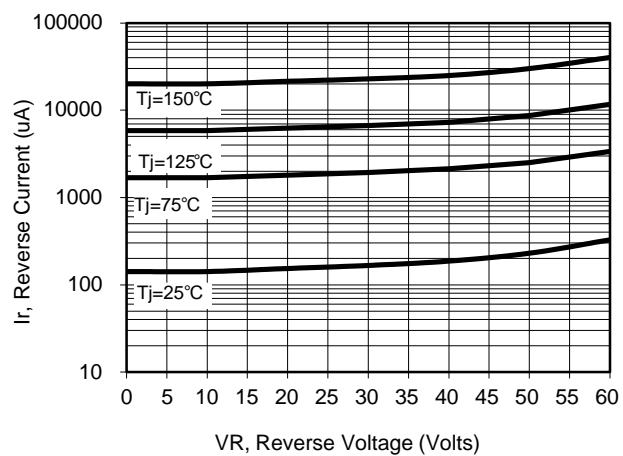
Current Derating, Case



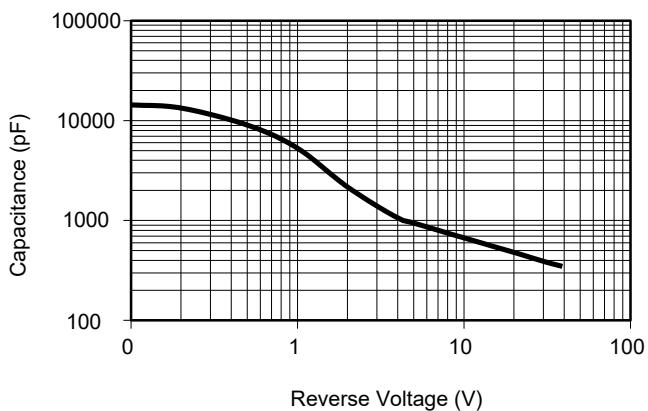
Maximum Repetitive Surge Current



Typical Forward Voltage



Typical Reverse Current

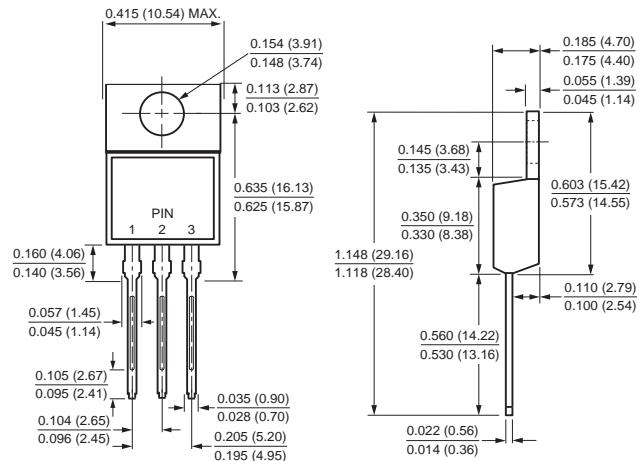


Typical Junction Capacitance

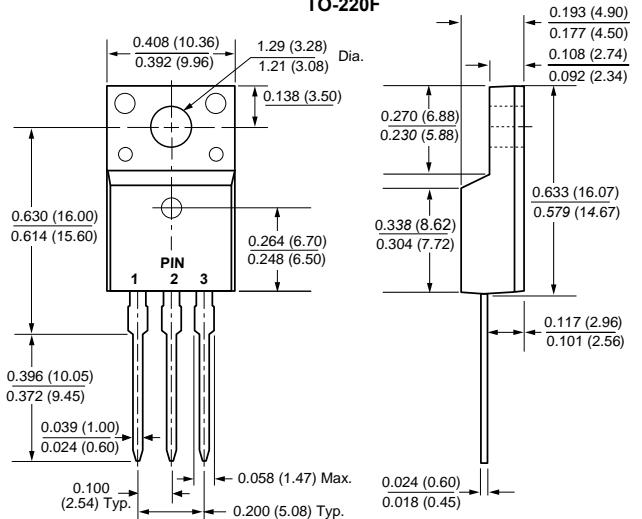
PACKAGE OUTLINE DIMENSIONS

Note: unit In(mm)

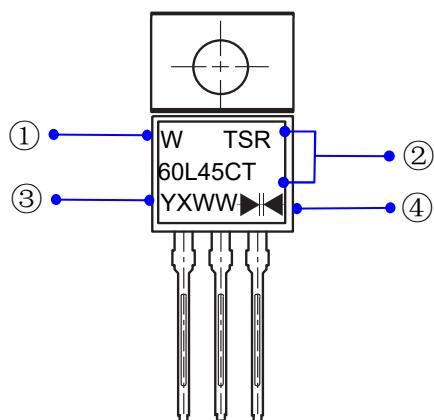
TO-220AB



TO-220F



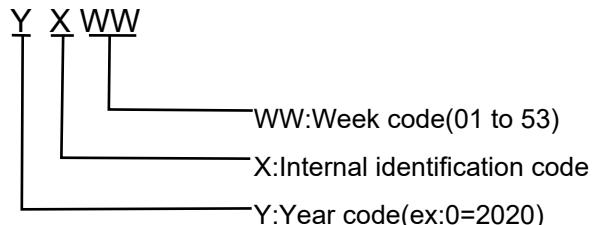
Marking Information



① W : Company's trademark

② Product model : TSR60L45CT or TSR60L45CTF

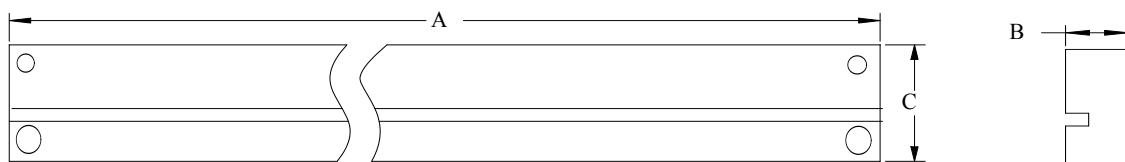
③ PDC information:



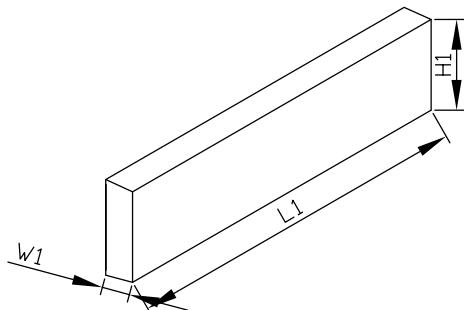
④ ►► Double wafer

Packaging Information

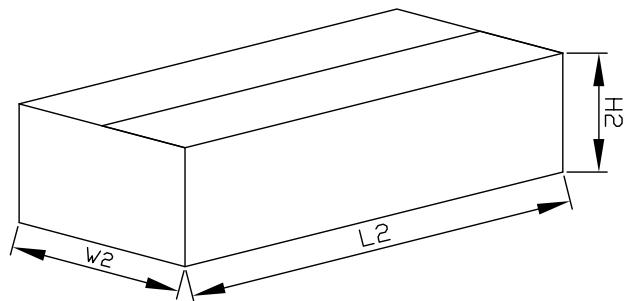
1.Tube Dimensions



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			