

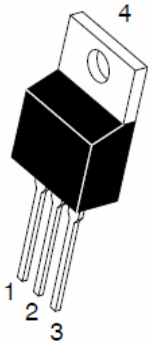
TSR60L60CT

TSR60L60CTF

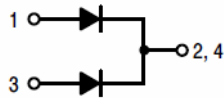
23-NOV-2019

Trench MOS Barrier Schottky Rectifier

TO-220AB
TSR60L60CT



ITO-220AB
TSR60L60CTF



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	60		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	280		A
Operating junction and storage temperature range		TJ, TSTG	-50 to +150		°C
Typical thermal resistance per leg	TO-220AB	R _{JC}	2		°C/W
	ITO-220AB		4		
Instantaneous forward voltage per diode			TYP.	MAX.	V
	IF=3A	TJ=25°C	0.33	0.38	
	IF=3A	TJ=125°C	0.28	-	
	IF=30A	TJ=25°C	0.58	0.65	
Instantaneous reverse current per diode at rated reverse voltage			10	100	µA
			10	-	mA

Notes:

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

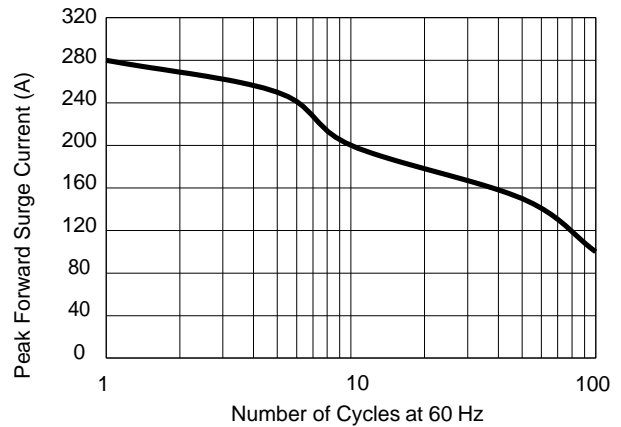
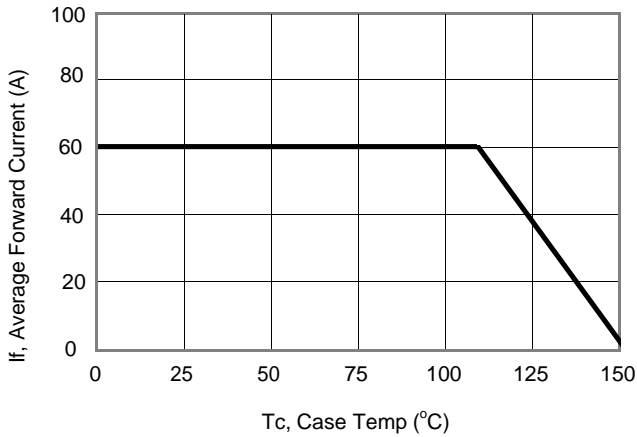
(2) Pulse test: Pulse width ≦ 40 ms

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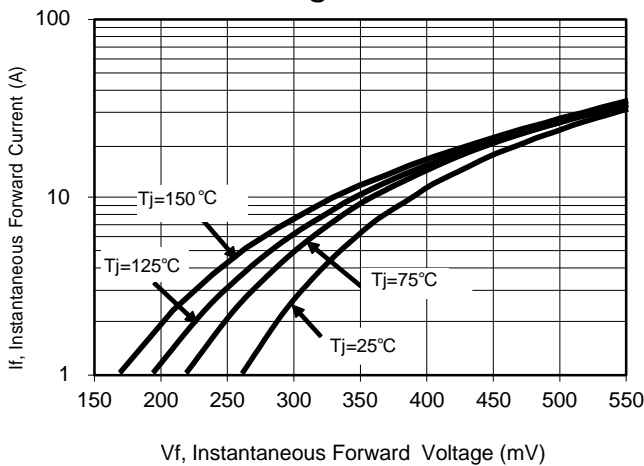
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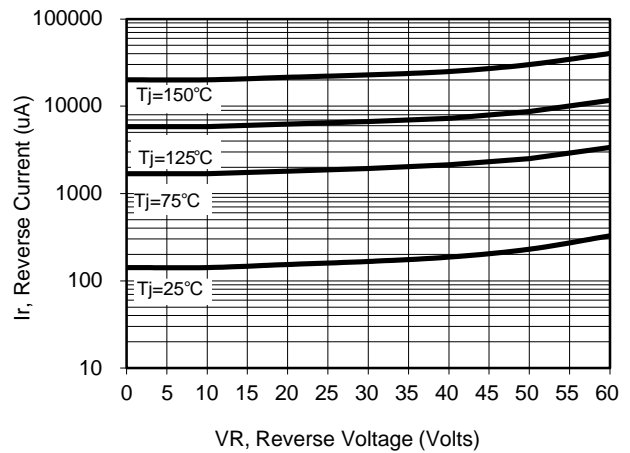
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



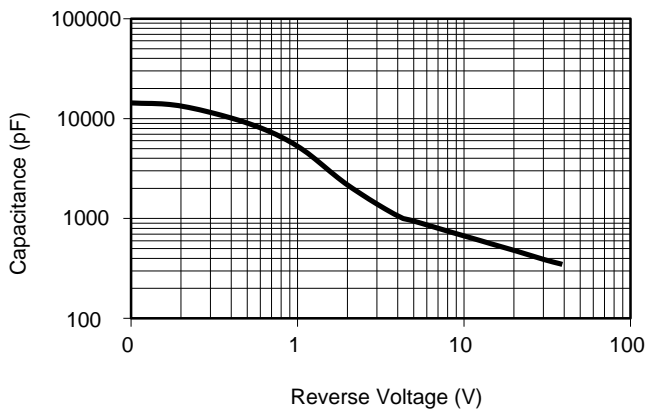
Current Derating, Case



Maximum Repetitive Surge Current



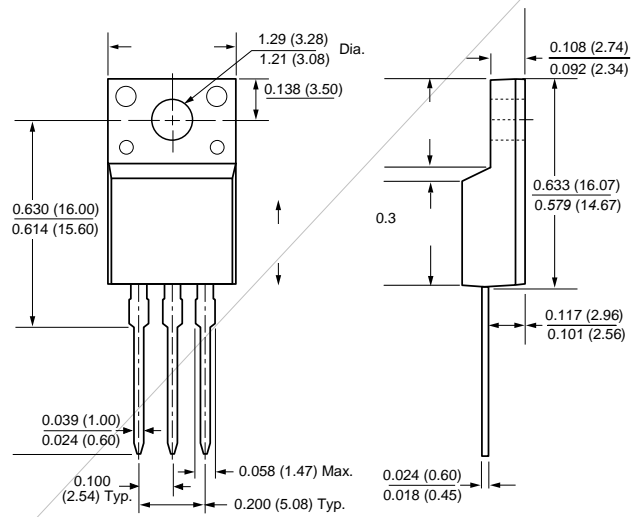
Typical Forward Voltage



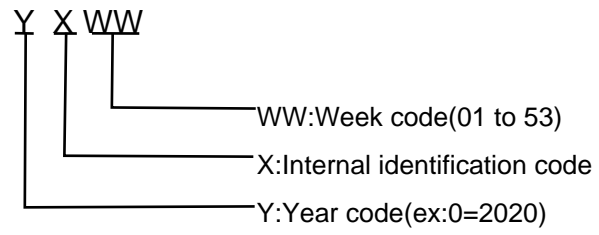
Typical Reverse Current

Typical Junction Capacitance

PACKAGE OUTLINE DIMENSIONS



W : Company's trademark
Product model : TSR60L60CT or TSR60L60CTF
PDC information



1.Tube Dimensions

2.Inside Box

3.Outside Box