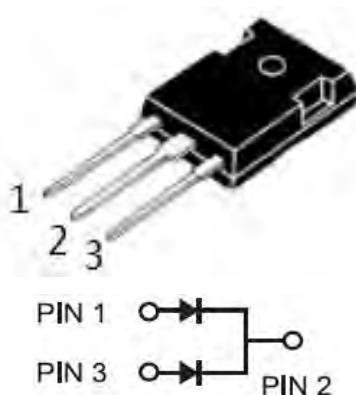


Trench MOS Barrier Schottky Rectifier

247
TSR40L45PT



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 per diode	device	IF(AV)	40	A
	per diode		20	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load per diode	IFSM	320		A
Operating junction and storage temperature range	TJ, TSTG	-50 to +150		°C
Typical thermal resistance per leg	TO-247	R _{θJC}	2	
Instantaneous forward voltage per diode		VF(1)	TYP.	MAX.
	IF=5A TJ=25°C		0.41	0.46
	IF=5A TJ=125°C		0.36	-
	IF=20A TJ=25°C		0.57	0.63
	IF=20A TJ=125°C		0.51	-
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C	IR(2)	20	100
	TJ=125°C		10	-
				mA

Notes:

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

(2) Pulse test: Pulse width ≤ 40 ms

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26-NOV-2017

PACKAGE OUTLINE DIMENSIONS

Note: unit: mm

TO-247

