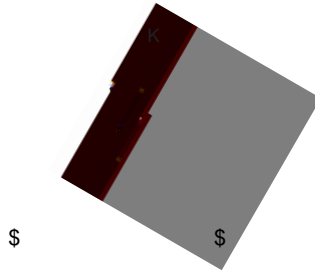


7 U H Q F K 0 2 6 % D U U L H U 6 F K R W W N \ 5 H

TSP L300P6

SMP6

K



\$

\$

Cathode K  Anode A

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	0	V		
Maximum average forward rectified current	IF(AV)		A		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode	IFSM	0	A		
Operating junction and storage temperature range	TJ, TSTG	- 0 to +150	°C		
7 \ S L F D O W K H U P D O U H V L V W D Q F H S H U G B R J C H O R X Q W H G R Q) 5 3 & C A V					
Instantaneous forward voltage per diode	VF(1)	TYP.	MAX.	V	
		IF=1A TJ=25°C	0. 1		0.76
		IF=1A TJ=125°C	0.		-
		IF=5A 7 - f &	0. 4		0.90
Instantaneous reverse current per diode at rated reverse voltage	IR(2)	TJ=25°C	1	20	uA
		TJ=125°C	2	-	mA

Notes:

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

(2) Pulse test: Pulse width 0 40 ms

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

