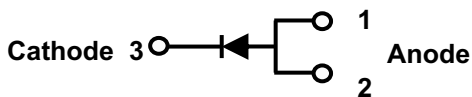


5 150SP

12-NOV-2019

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

TSP5
TO-277



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)

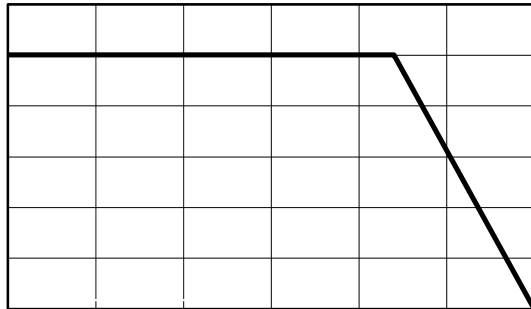
Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM			V
Maximum average forward rectified current		IF(AV)			A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode		IFSM	0		A
Operating junction and storage temperature range		TJ, TSTG	-40 to +150		°C
Typical thermal resistance per diode(Mounted on FR-4 PCB)		R _{JC}	72		°C/W
Instantaneous forward voltage per diode		VF(1)	TYP.	MAX.	V
	IF=1A TJ=25°C		0.51	0.56	
	IF=1A TJ=125°C		0.46	-	
	IF=5A TJ=25°C		0.89	5	
	IF=5A TJ=125°C		0.82	-	
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C	IR(2)	50		uA
	TJ=125°C		5		mA

Notes:

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

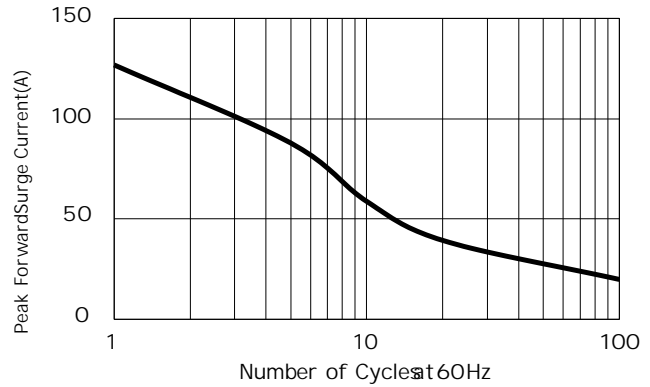
(2) Pulse test: Pulse width 0 μs

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

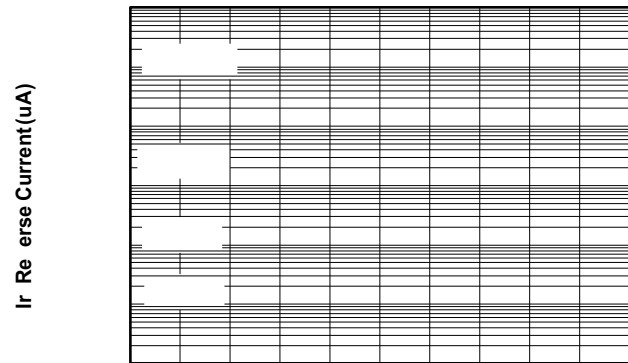


7 F & D V H R & 7 H P S

Current Derating, Case

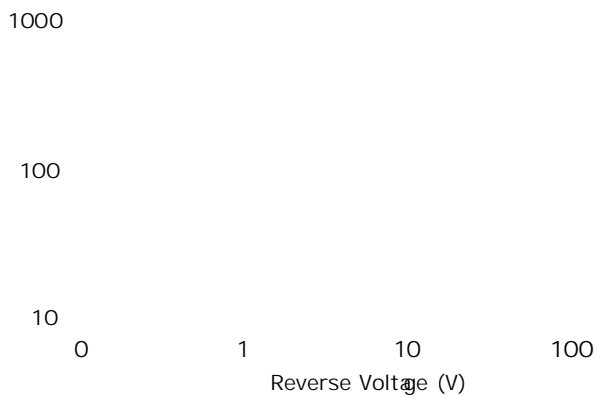


Maximum Repetitive Surge Current



9 5 5 H Y H U V H 9 R O W D J H 9 R O W V

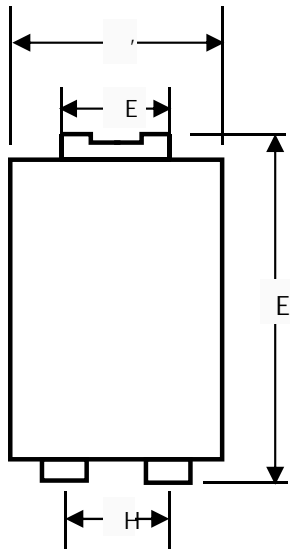
Typical Reverse Current



Typical Junction Capacitance 7 pF

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7 2



\$

Marking Information

Product model :TSP5 6 ~~Referred~~
to as 5 6

8PDC information

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)

Packaging Information