

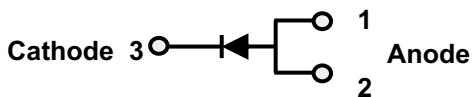
TSP5S150SP

12-NOV-2019

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TSP5S150SP

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		IR(2)		50	uA	
				5	-	mA

Notes:

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

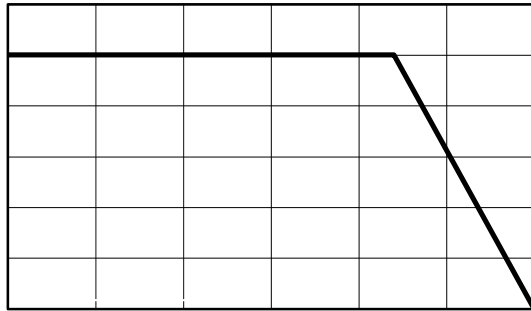
(2) Pulse test: Pulse width 0 μs PV

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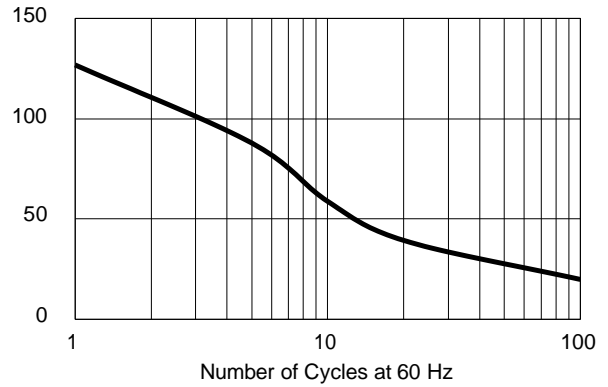
RATINGS AND CHARACTERISTICS CURVES

f & XQOHVQRWKB UZLVH

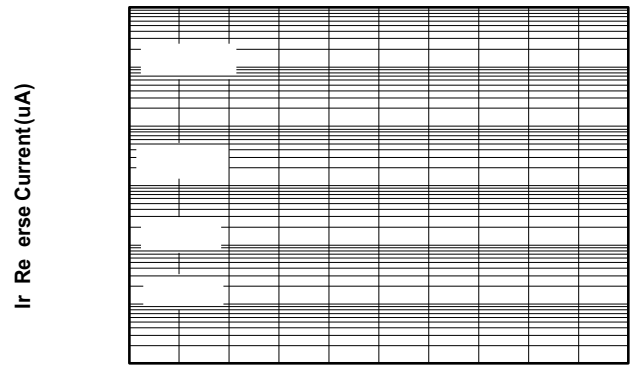


7 F & DVH 7&HPS

Current Derating, Case

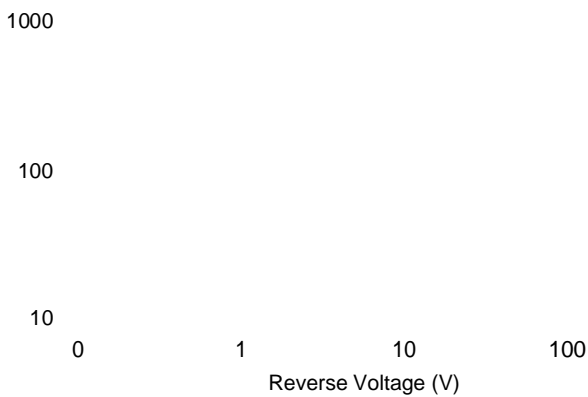


Maximum Repetitive Surge Current



95 5HYHUVH 9ROWDJH 9ROWV

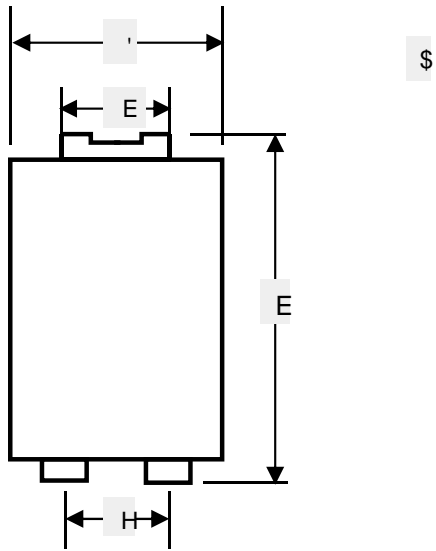
Typical Reverse Current



Typical Junction Capacitance

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7 2



Marking Information

7 Product model :TSP 6 6 3 Referred
to as 6

8 PDC information AE

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)

Packaging Information