



## PST ZP150A(B)

### RECTIFIER DIODE

#### Features

- Blocking Capability up to 1600 V
- High Surge Rating
- Stud Cathode and Stud Anode Version

#### ELECTRICAL CHARACTERISTICS AND RATINGS

#### Blocking

Parameter	Symbol	Min	Max	Typ	Unit	Conditions
Repetitive peak reverse voltage	$V_{RRM}$		1600		V	$T_j = -40^\circ C$ to $180^\circ C$
Non repetitive peak reverse voltage	$V_{RSM}$		1700		V	$T_j = -40^\circ C$ to $180^\circ C$
Repetitive peak reverse current	$I_{RRM}$		25		mA	$T_j = T_{jmax}$ , $V = V_{RRM}$

#### Conducting

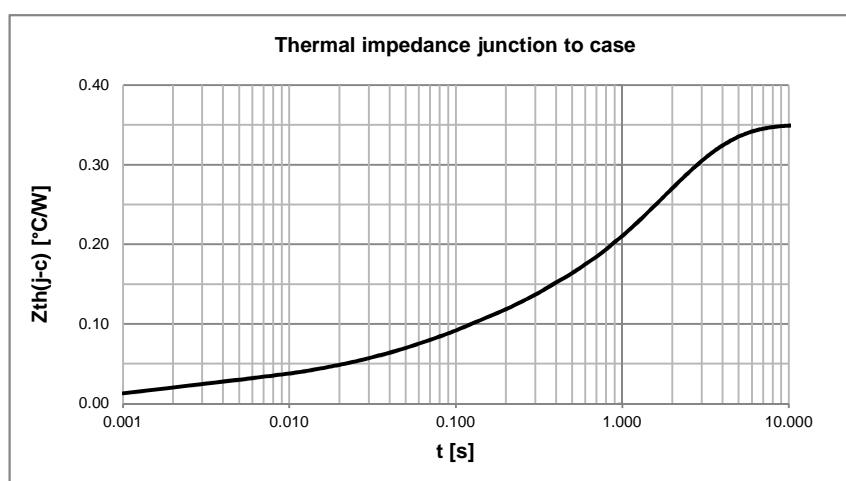
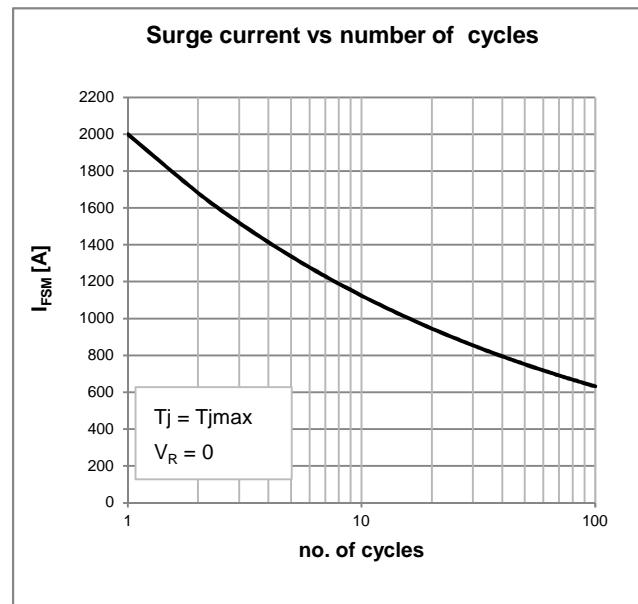
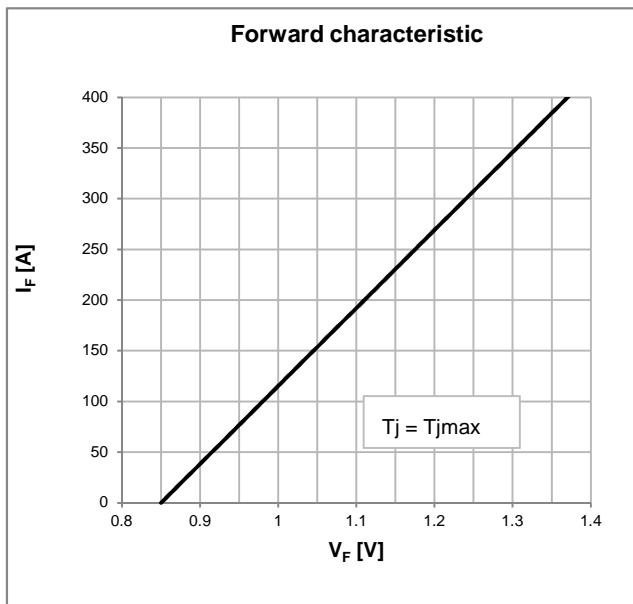
Parameter	Symbol	Min	Max	Typ	Unit	Conditions
Average value of forward current	$I_{F(AV)}$		165		A	50 Hz sinewave, $180^\circ$ conduction, $T_c = 100^\circ C$
RMS value of forward current	$I_{F(RMS)}$		260		A	50 Hz sinewave, $180^\circ$ conduction, $T_c = 35^\circ C$
Peak one cycle surge (non repetitive) current	$I_{FSM}$		2		kA	50 Hz sinewave, $180^\circ$ conduction, $T_j = T_{jmax}$ , $V_R = 0$
$I^2 t$	$I^2 t$		20.0		kA <sup>2</sup> s	$T_j = T_{jmax}$
Peak forward voltage	$V_{FM}$		1.11		V	Forward current 200 A, $T_j = T_{jmax}$
Threshold voltage	$V_{F(TO)}$		0.85		V	$T_j = T_{jmax}$
Forward slope resistance	$r_F$		1.3		mΩ	$T_j = T_{jmax}$

#### Thermal and mechanical characteristics and ratings

Parameter	Symbol	Min	Max	Typ	Unit	Conditions
Operating temperature	$T_j$	-40	180		°C	
Storage temperature	$T_{stg}$	-40	180		°C	
Thermal resistance junction to case	$R_{th(j-c)}$		0.35		°C/W	180° SIN
Thermal resistance case to sink	$R_{th(c-s)}$		0.08		°C/W	Mounting surfaces smooth, flat and greased
Mounting torque	$M$		10		N·m	
Weight	$W$			100	g	

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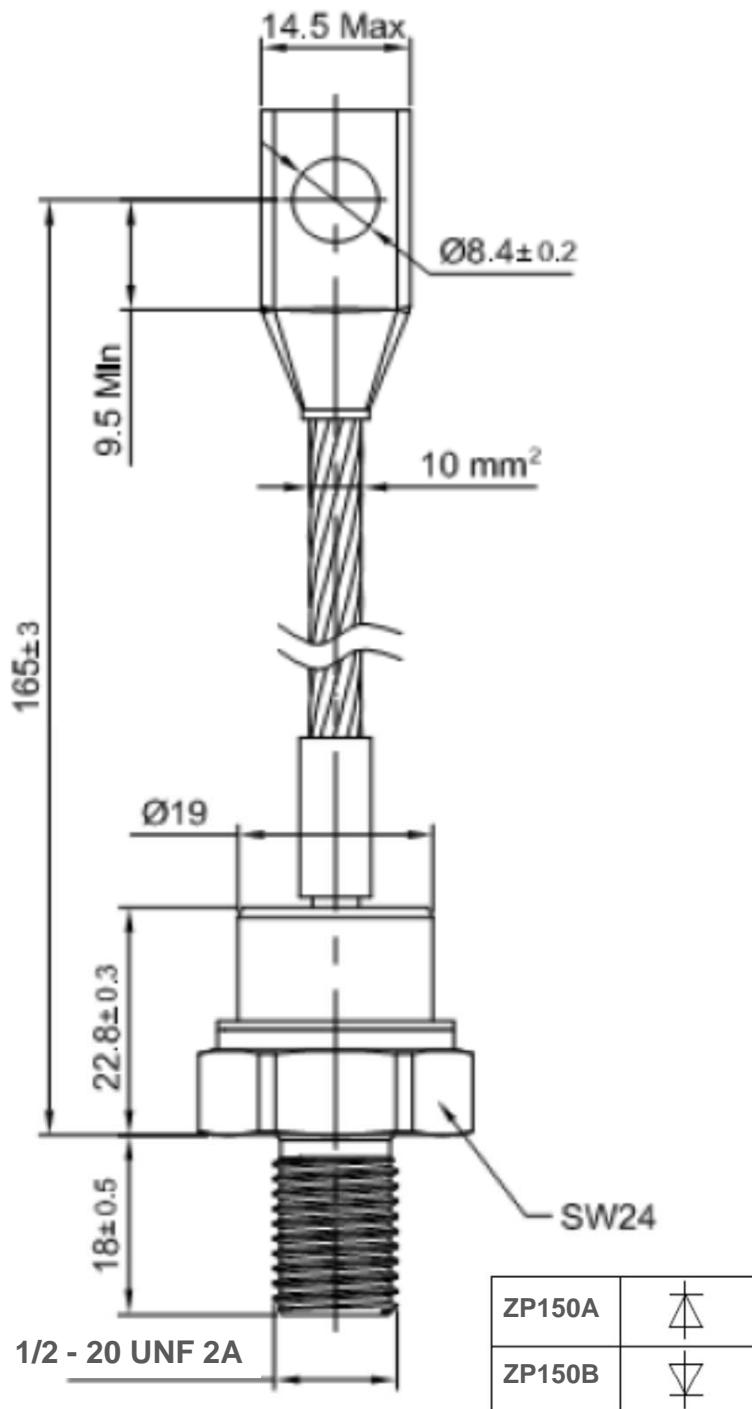
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### OUTLINE AND DIMENSIONS



dimensions in mm