



PST ZP126A(B)

RECTIFIER DIODE

Features

- Blocking Capability up to 3000 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}		3000		V	$T_j = -40^\circ C$ to $160^\circ C$
Non repetitive peak reverse voltage	V_{RSM}		3100		V	$T_j = -40^\circ C$ to $160^\circ C$
Repetitive peak reverse current	I_{RRM}		30		mA	$T_j = T_{jmax}$, $V = V_{RRM}$

Conducting

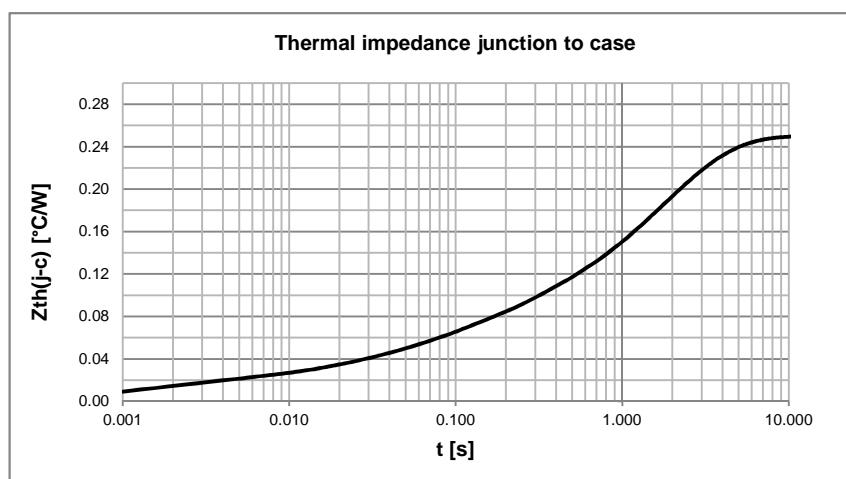
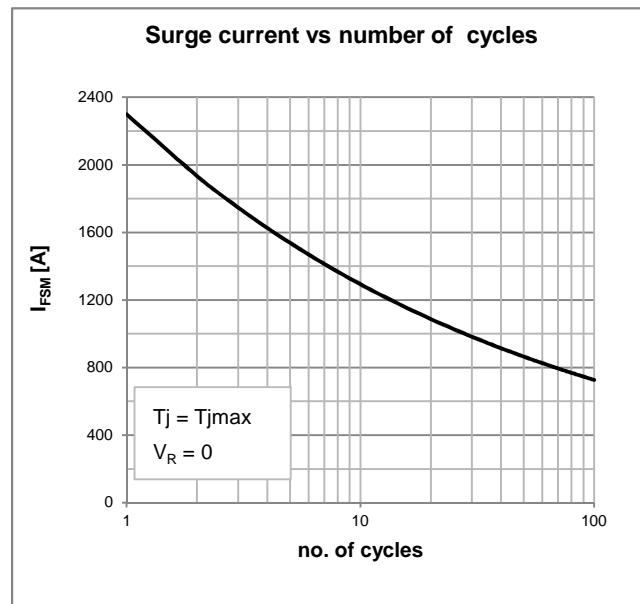
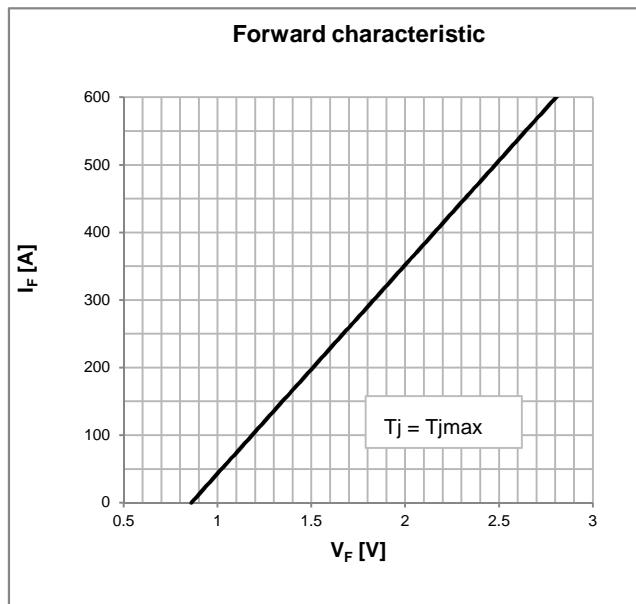
Parameter	Symbol	Min	Max	Typ	Unit	Conditions
Average value of forward current	$I_{F(AV)}$		126		A	50 Hz sinewave, 180° conduction, $T_c = 100^\circ C$
RMS value of forward current	$I_{F(RMS)}$		315		A	50 Hz sinewave, 180° conduction, $T_c = 35^\circ C$
Peak one cycle surge (non repetitive) current	I_{FSM}		2.3		kA	50 Hz sinewave, 180° conduction, $T_j = T_{jmax}$, $V_R = 0$
$I^2 t$	$I^2 t$		26.5		kA ² s	$T_j = T_{jmax}$
Peak forward voltage	V_{FM}		2.8		V	Forward current 600 A, $T_j = T_{jmax}$
Threshold voltage	$V_{F(TO)}$		0.86		V	$T_j = T_{jmax}$
Forward slope resistance	r_F		3.2		mΩ	$T_j = T_{jmax}$

Thermal and mechanical characteristics and ratings

Parameter	Symbol	Min	Max	Typ	Unit	Conditions
Operating temperature	T_j	-40	160		°C	
Storage temperature	T_{stg}	-40	160		°C	
Thermal resistance junction to case	$R_{th(j-c)}$		0.25		°C/W	180° SIN
Thermal resistance case to sink	$R_{th(c-s)}$		0.04		°C/W	Mounting surfaces smooth, flat and greased
Mounting torque	M	16	24		N·m	
Weight	W			110	g	

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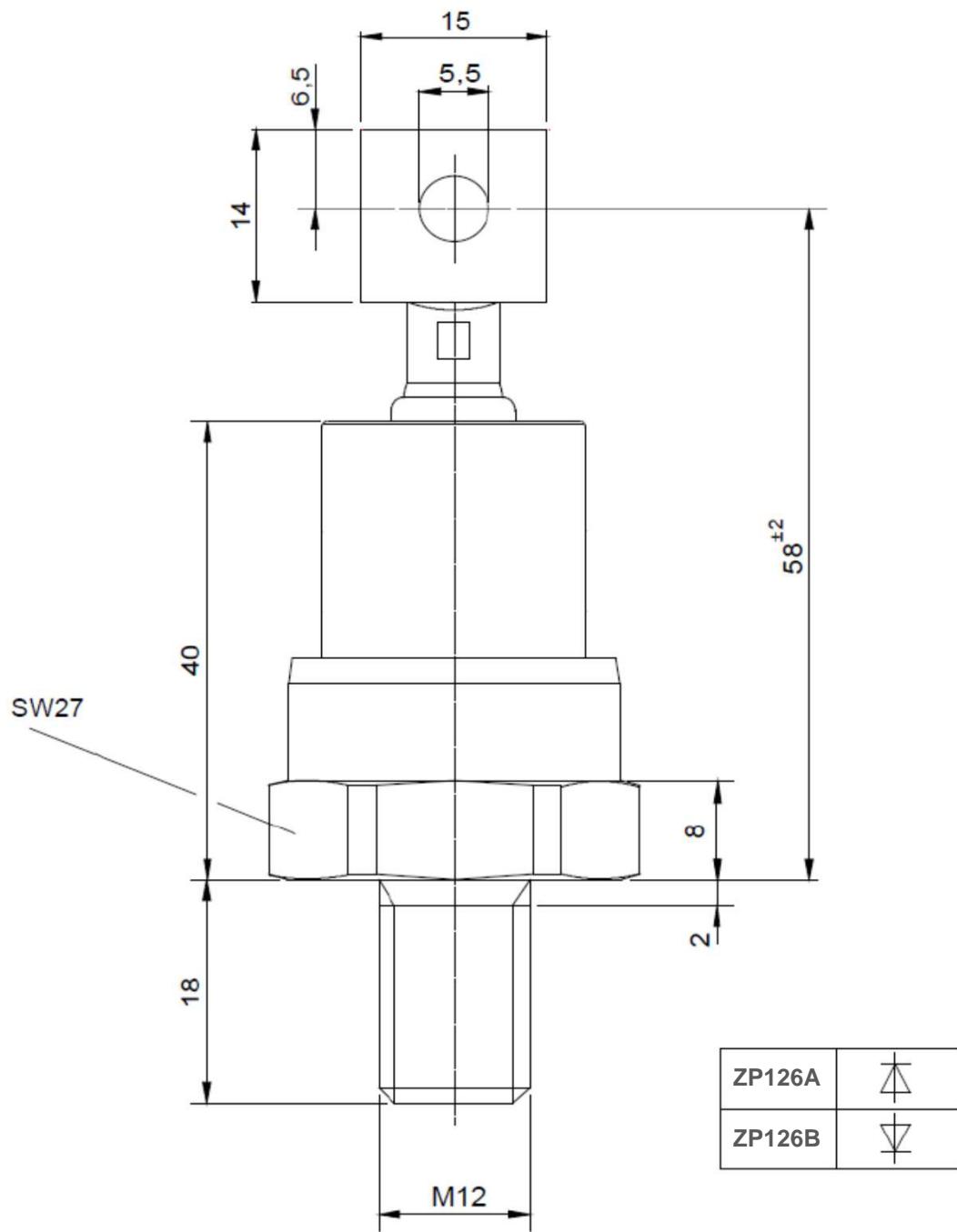
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OUTLINE AND DIMENSIONS



(dimensions in mm)