

## MECHANICAL DATA

- ✧ Case: SMA molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Polarity: Color band denotes cathode end

## ABSOLUTE MAXIMUM RATING (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	JSPX2100A	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	100	V
Maximum RMS voltage	$V_{RMS}$	70	V
Maximum DC blocking voltage	$V_{DC}$	100	V
Maximum average forward current	$I_{F(AV)}$	2.0	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50	A
Operating junction temperature range	$T_j$	-55 to +150	
Storage temperature range	$T_{stg}$	-55 to +150	

## ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=2A$	$V_F$		0.85	V
Reverse current at rated DC blocking voltage	$T_A=25$	$I_R$		0.1	mA
	$T_A=100$			8	
Junction capacitance	$V_R=4.0V, f=1MHz$	$C_J$	110		pF



THERMAL RESISTANCES

Symbol	Parameter	JSPX2100A	Unit
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TAPE AND REEL SPECIFICATION-SMA





### CHARACTERISTICS CURVE

FIG.3: Maximum non-repetitive peak forward surge current

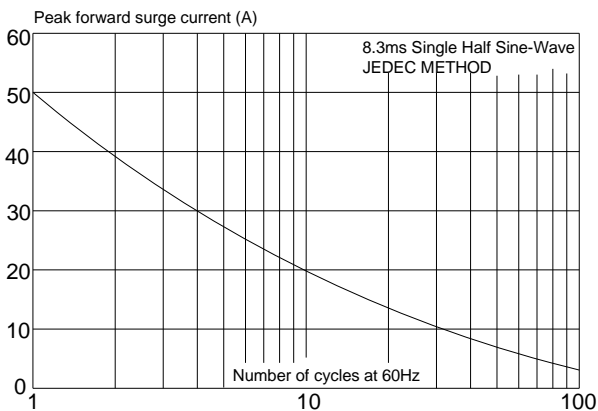


FIG.4: Forward current derating curve

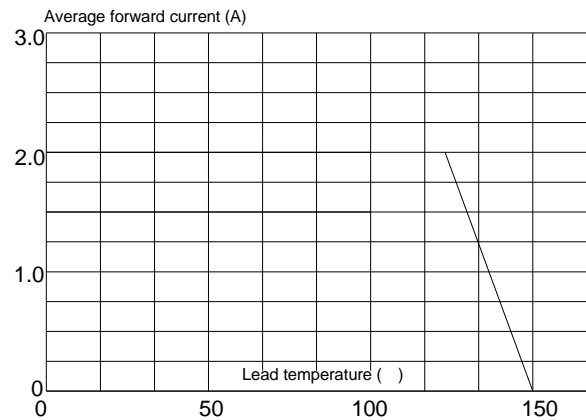


FIG.5: Maximum transient thermal impedance

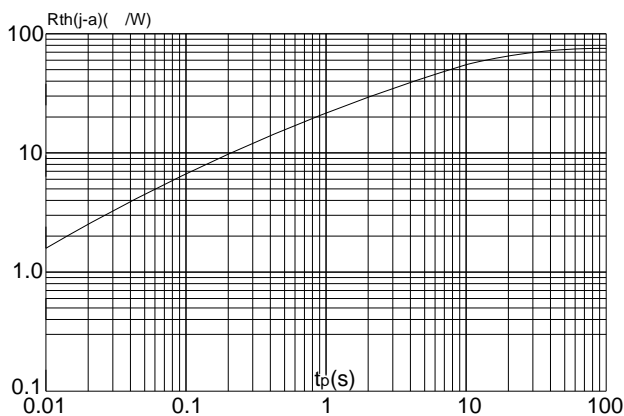
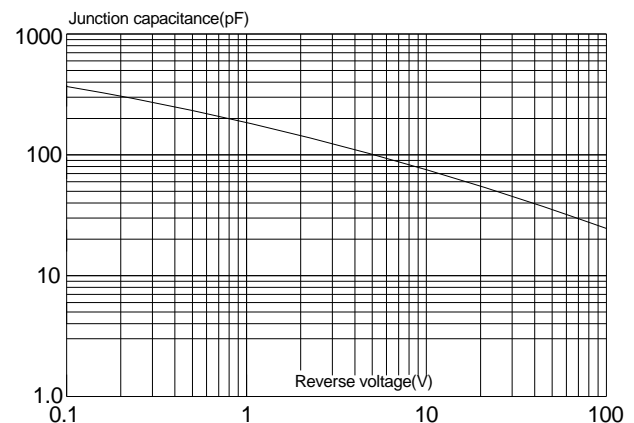


FIG.6: Typical junction capacitance



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