

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	JSPX3150A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	150	V
Maximum RMS voltage	V_{RMS}	105	V
Maximum DC blocking voltage	V_{DC}	150	V
Maximum average forward current	$I_{F(AV)}$	3.0	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80	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	$I_F=3A$ V_F			0.9	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		90		pF



THERMAL RESISTANCES

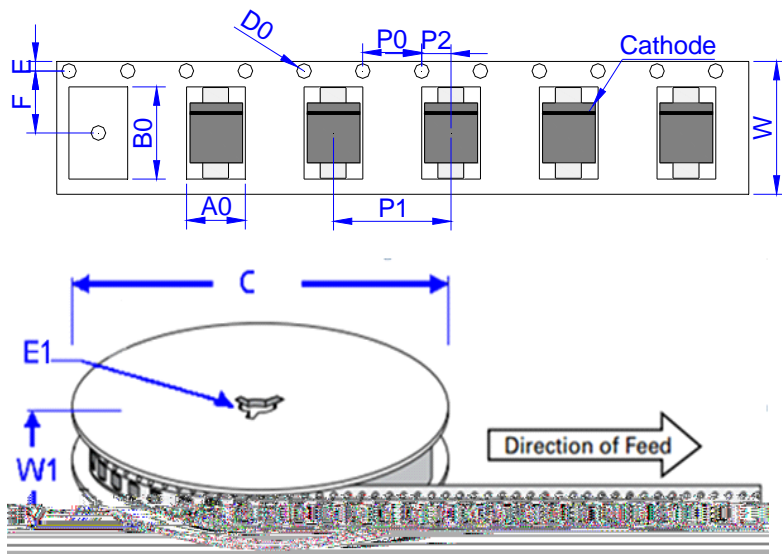
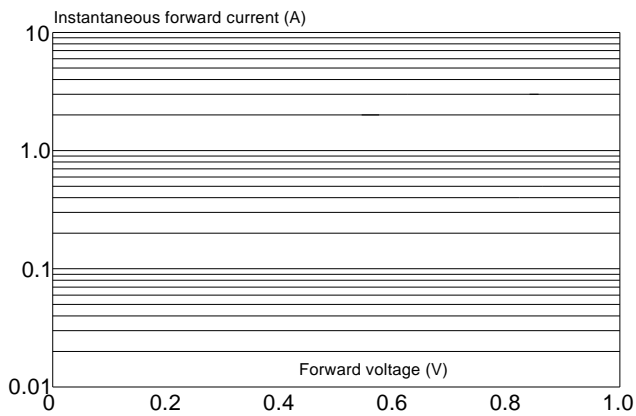
Symbol	Parameter	JSPX3150A	Unit
$R_{th(j-a)}$	Thermal resistance from junction to ambient	70	/W

MARKING



PACKAGE MECHANICAL DATA

Ref.	Dimensions	
	Millimeters	Inches
	Min.	
A	2.60	
B	4.15	
C	1.25	
D	0.95	
E	4.90	
F	0.051	
G	0.15	

TAPE AND REEL SPECIFICATION-SMA

CHARACTERISTICS CURVE
FIG.1: Typical forward characteristics (25 °C)
FIG.2: Typical reverse characteristics




CHARACTERISTICS CURVE

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

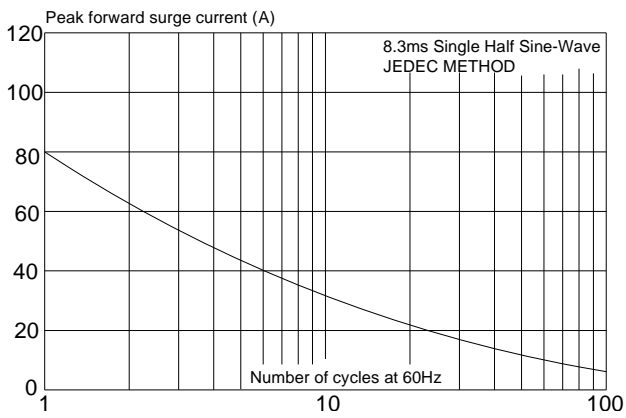


FIG.4: Forward current derating curve

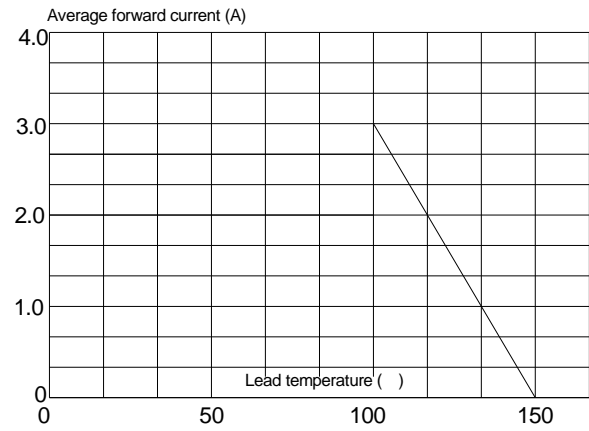


FIG.5: Maximum transient thermal impedance

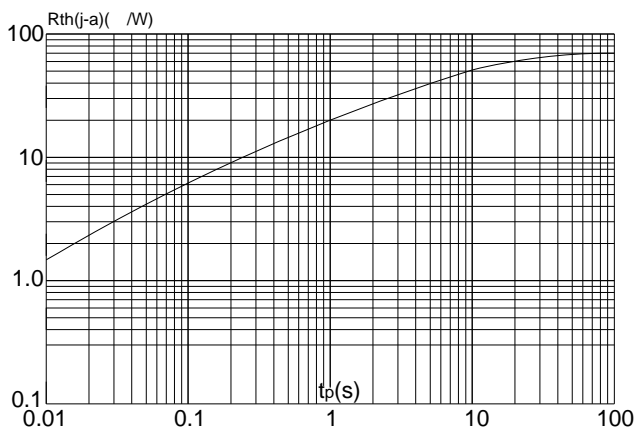


FIG.6: Typical junction capacitance

