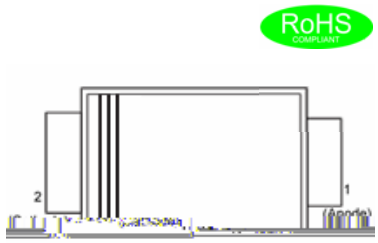
JSPX340A

3A Schottky Barrier Rectifier

Rev.1.2

DESCRIPTION

Plastic package has underwriters laboratories flammability classification 94V-0
For surface mounted applications in order to optimize board space
Lead free in compliance with EU RoHS 2011/65/EU directive
Ultra low forward voltage drop
Low power losses, high efficiency operation
High current capability and surge capability
Low thermal resistance package



DO-214AC (SMA)

Symbol

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 ambient temperature unless otherwise specified.)

Parameter	Symbol	JSPX340A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC blocking voltage	V_{DC}	40	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 +125	
Storage temperature range	T_{stg}	-55 to +150	-55 t2 3 1.(ar

			Min	Typ	Max	Unit
Forward voltage	I_F=3A	V_F			0.55	V
Reverse current at rated DC blocking voltage	T_A=25	I_R			0.1	mA
	T_A=100				10	
Junction capacitance	V_R=4.0V, f=1MHz	C_J		210		pF

THERMAL RESISTANCES

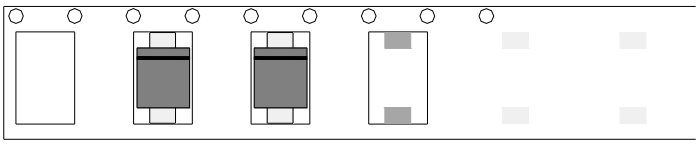
Symbol	Parameter	JSPX340A	Unit
$R_{th(j-a)}$	Thermal resistances from junction to ambient	70	/W

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



CHARACTERITICS CURVE

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

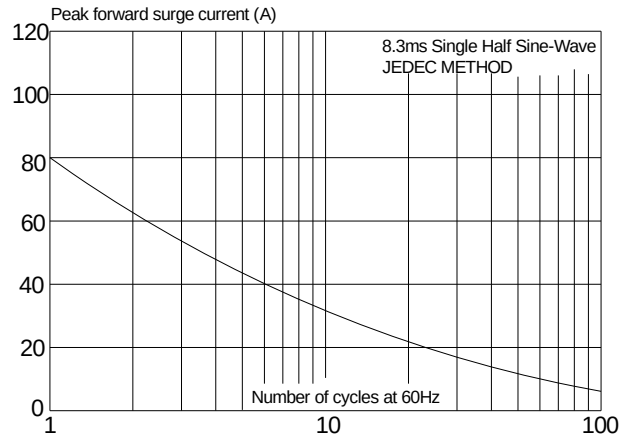


FIG.4: Forward current derating curve

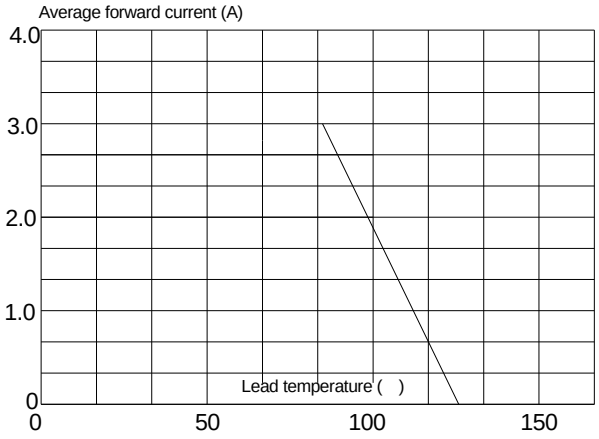


FIG.5: Maximum transient thermal impedance

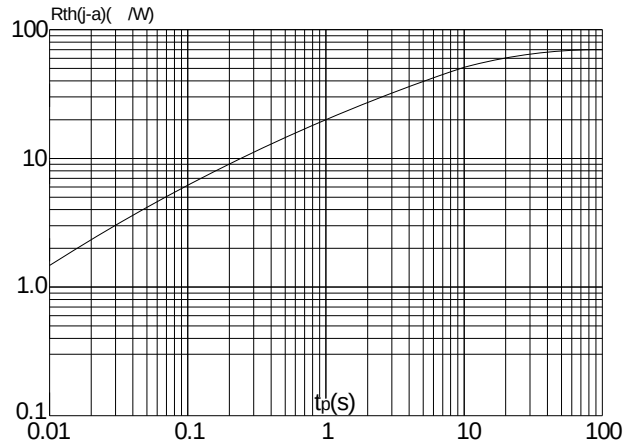


FIG.6: Typical junction capacitance