

## JSPX560A

5A 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

### 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	JSPX560A	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	60	V
Maximum RMS voltage	$V_{RMS}$	42	V
Maximum DC blocking voltage	$V_{DC}$	60	V
Maximum average forward current	$I_{F(AV)}$	5.0	A

Peak forward surge current: 8.3ms single half

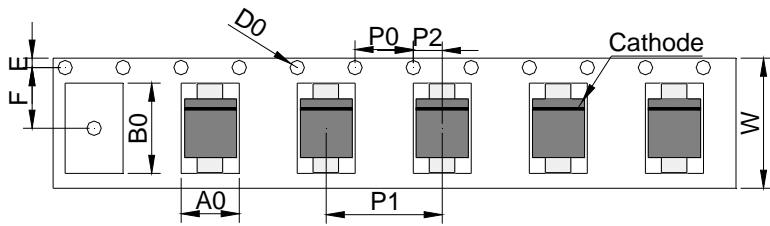
## THERMAL RESISTANCES

Symbol	Parameter	JSPX560A	Unit
$R_{th(j-a)}$	Thermal resistances from junction to ambient	65	/W

## MARKING



TAPE AND REEL SPECIFICATION-SMA



Ref.	Dimensions	
	Millimeters	Inches
A0	2.79 ± 0.3	0.110 ± 0.012
B0	5.33 ± 0.3	0.210 ± 0.012
C	330.0	13.0
D0	1.55 ± 0.1	0.061 ± 0.004
E	1.75 ± 0.2	0.069 ± 0.008
E1	13.3 ± 0.3	0.524 ± 0.012
F	5.5 ± 0.2	0.217 ± 0.008
P0	4.00 ± 0.2	0.157 ± 0.008
P1	4.00 ± 0.2	0.157 ± 0.008
P2	2.00 ± 0.2	0.079 ± 0.008
W	12.0 ± 0.2	0.472 ± 0.008
W1	15.7 ± 2.0	0.618 ± 0.079

OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.0673	7,500	120,000	330

CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics (25 °C)

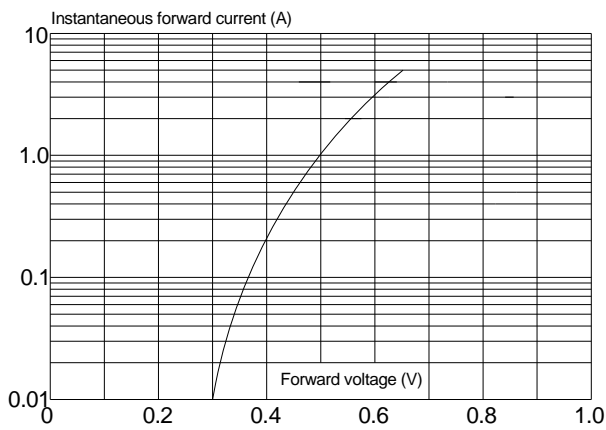
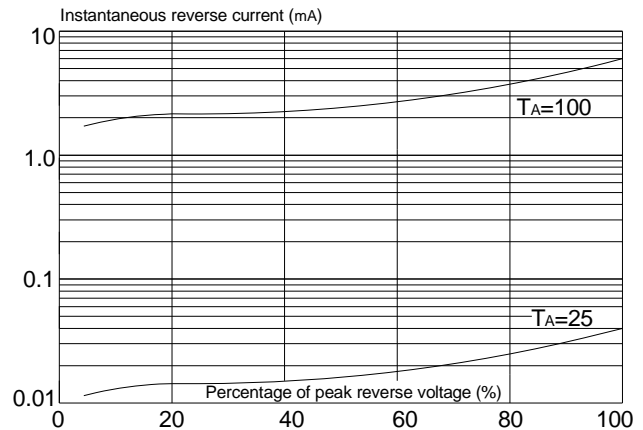


FIG.2: Typical reverse characteristics



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CHARACTERISTICS CURVE

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

FIG.4: Forward current derating curve