



## JSPG560A

### 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: SMB 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	JSPG560A	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 sine-wave superimposed on rated load	$I_{FSM}$	120	A
Operating junction temperature range	$T_j$	-55 to +150	
Storage temperature range	$T_{stg}$	-55 to +150	

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

Parameter	Symbol	Min	Max



**THERMAL RESISTANCES**

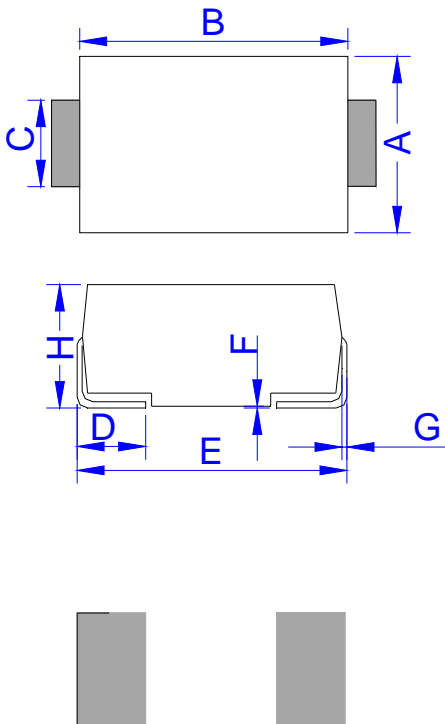
Symbol	Parameter	JSPG560A	Unit
$R_{th(j-a)}$	Thermal resistance from junction to ambient (note1)	55	/W

Note1 Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B mounted

**MARKING**



**PACKAGE MECHANICAL DATA**



Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A				
B				
C				
D	0.95	1.52		0.060
E				
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
H				





**CHARACTERISTICS CURVE**

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

FIG.4: Forward current derating curve