JIEJIE MICROELECTRONICS CO., Ltd

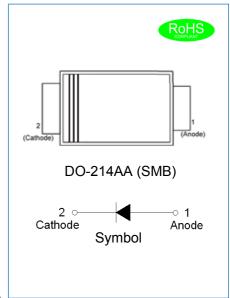
JSPG540A~JSPG5200A

5A Schottky Barrier Rectifier

Rev.1.1

DESCRIPTION

- Plastic package has underwriters laboratories flammability classification 94V-0
- → Exceeds environmental standards of MIL-S-19500/228
- ♦ 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: JEDEC SMB molded plastic
- → Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- ♦ Polarity: Color band denotes cathode end

ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

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

Parameter		Symbol	JSPG 540A	JSPG 560A	JSPG 5100A	JSPG 5150A	JSPG 5200A	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	40	60	100	150	200	V
Maximum RMS voltage		V _{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage		V_{DC}	40	60	100	150	200	V
Maximum average forward current		I _{F(AV)}	5.0					Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	120				Α	
Maximum forward voltage @ I _F =5A		V _F	0.55	0.7	0.85	0.9		V
Maximum DC reverse current T _A =25°C			0.1				A	
at rated DC blocking voltage	T _A =100℃	l _R		0.1			- mA	
Typical junction capacitance V _R =4.0V, f=1MHz		Сл	35	350 150			pF	
Operating junction temperature range		Tj	-55 to +125		-55 to +150		$^{\circ}$	
Storage temperature range		T _{stg}		-55 to +150				$^{\circ}$ C



THERMAL RESISTANCES

Symbol	Parameter			JSPG 5200A	Unit
R _{th(j-a)}	R _{th(j-a)} Junction to ambient (note1)		55		°C/W

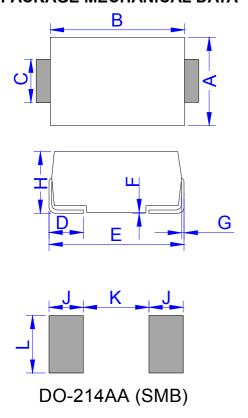
Note1: Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B mounted

MARKING



The first '*'	Month code		
The second '*'	Year code		
The third '*'	Batch number code		
The fourth '*'	Chip code		
The fifth '*'	Package manufacturer code		
G	Package: SMB		
5	I _{F(AV)} :5A		
4	V _{RRM} :40V		

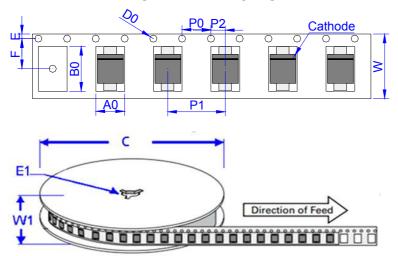
PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millin	neters	Inches			
	Min.	Max.	Min.	Max.		
Α	3.30	3.94	0.130	0.155		
В	4.30	4.80	0.169	0.189		
С	1.90	2.20	0.075	0.087		
D	0.95	1.52	0.037	0.060		
E	5.20	5.60	0.205	0.220		
F	0.051	0.203	0.002	0.008		
G	0.15	0.31	0.006	0.012		
Н	2.10	2.40	0.083	0.094		
J	2.20		0.087			
K		2.60		0.102		
L	2.30		0.091			

JSPG540A~JSPG5200A

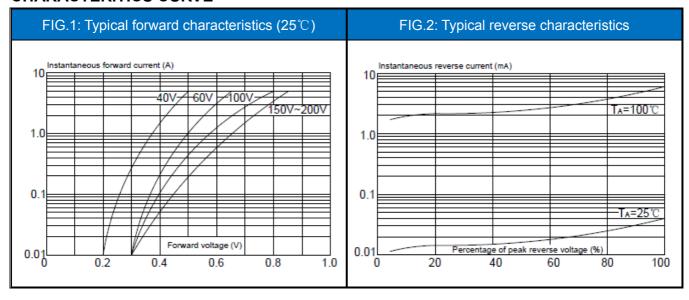
TAPE AND REEL SPECIFICATION-SMB



Def	Dimensions			
Ref.	Millimeters	Inches		
A0	3.76 ± 0.3	0.148 ± 0.012		
В0	5.69± 0.3	0.224 ± 0.012		
С	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	8.00 ± 0.2	0.3145 ± 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		

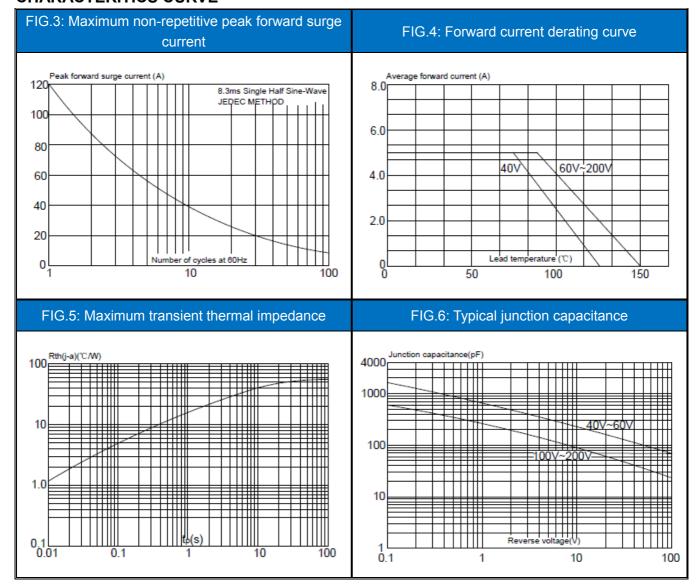
OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.1	3,000	48,000	330

CHARACTERITICS CURVE





CHARACTERITICS CURVE



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