

JIEJIE MICROELECTRONICS CO., LTD.

JSPI3150A

3A Schottky Barrier Rectifier

Rev.1.4

DESCRIPTION

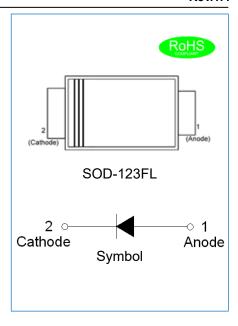
- Plastic package has underwriters laboratories flammability classification 94V-0
- ♦ For surface mounted applications in order to optimize board space
- ♦ Lead free in compliance with EU RoHS 2011/65/EU directive
- ♦ Ultra low forward voltage drop
- ♦ Low power losses, high efficiency operation
- ♦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



→ Case: SOD-123FL 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	JSPI3150A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	150	V
Maximum RMS voltage	VRMS	105	V
Maximum DC blocking voltage	VDC	150	V
Average forward current	I _{F(AV)}	3.0	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	IFSM	80	Α
Operating junction temperature range	Tj	-55 to +150	$^{\circ}$
Storage temperature range	T _{stg}	-55 to +150	$^{\circ}$ C

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

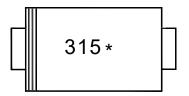
Parameter		Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =3A	VF			0.9	V
Reverse current at rated DC	T _A =25℃	I _R			0.1	A
blocking voltage	T _A =100°C		IR 			8
Junction capacitance	V _R =4.0V, f=1MHz	Сл		90		pF



THERMAL RESISTANCES

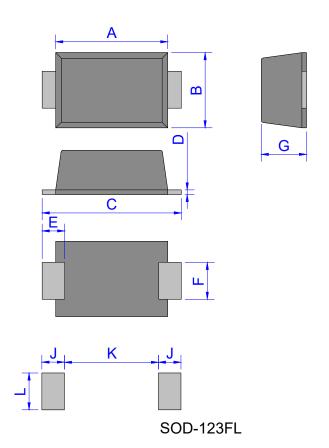
Symbol	Parameter	JSPI3150A	Unit
R _{th(j-a)}	Thermal resistances from junction to ambient	85	°C/W

MARKING



3	I _{F(AV)} :3A
15	V _{RRM} :150V
*	Chip code

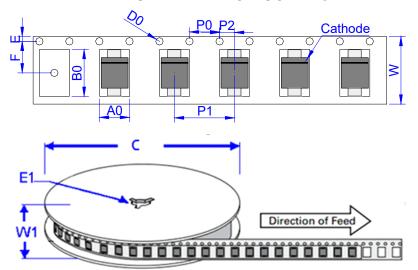
PACKAGE MECHANICAL DATA



	Dimensions			
Ref.	Millimeters		Incl	hes
	Min.	Max.	Min.	Max.
Α	2.60	3.00	0.102	0.118
В	1.60	2.00	0.063	0.079
С	3.45	3.95	0.136	0.156
D	0.10	0.25	0.004	0.01
Е	0.3	0.9	0.012	0.035
F	0.80	1.20	0.031	0.047
G	0.95	1.35	0.037	0.053
J	1.30		0.051	
K		1.70		0.067
L	1.30		0.051	



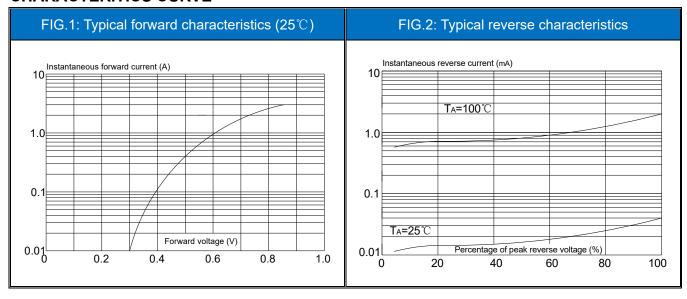
TAPE AND REEL SPECIFICATION-SOD-123FL



D-f	Dimensions			
Ref.	Millimeters	Inches		
A0	1.95 ± 0.3	0.077± 0.012		
В0	B0 3.95 ± 0.3 0.156 ± 0.01			
С	178	7.0		
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	3.50 ± 0.2	0.138 ± 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	8.0± 0.2	0.315 ± 0.008		
W1	11.5 ± 1.0	0.453 ± 0.039		

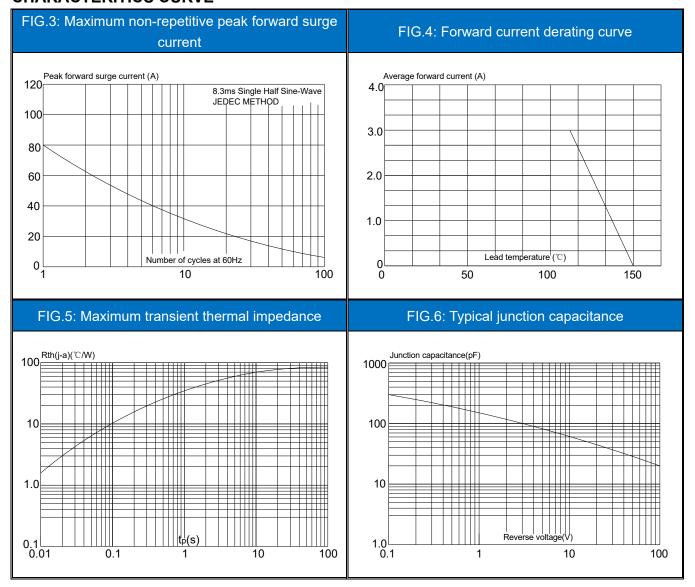
PART No.	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	DESCRIPTION
JSPI3150A	0.0144	3,000	150,000	7 inch reel pack

CHARACTERITICS CURVE





CHARACTERITICS CURVE





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