

JIEJIE MICROELECTRONICS CO., LTD.

JSPL0230AC

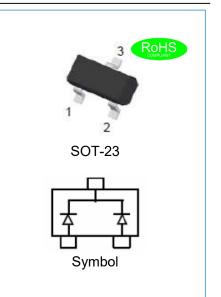
0.2A Schottky Barrier Rectifier

DESCRIPTION

- Plastic package has underwriters laboratories flammability classification 94V-0
- \diamond 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
- \diamond Low power losses, high efficiency operation
- ♦ High current capability and surge capability
- ♦ Extremely fast switching speed
- ♦ Low thermal resistance package

MECHANICAL DATA

- ♦ Case: SOT-23 molded plastic
- ♦ Terminals: Solder plated, solderable per J-STD-002



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

Parameter	Symbol	JSPL0230AC	Unit
Maximum repetitive peak reverse voltage		30	V
Maximum working reverse voltage		30	V
Maximum DC blocking voltage		30	V
Forward continuous current		0.2	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	0.6	А
Power dissipation	PD	0.2	W
Maximum junction capacitance V _R =1.0V, f=1MHz	Сл	10	pF
Operating junction temperature range	Tj	-55 to +125	°C
Storage temperature range	T _{stg}	-55 to +150	°C

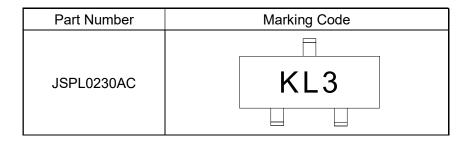
Rev.1.1

ELECTRICAL CHARACTERISTICS (Rating at 25°C ambient temperature unless otherwise specified.)						
Parameter		Symbol	Min.	Тур.	Max.	Unit
Reverse breakdown voltage	Ι _R =100μΑ	V _{BR}	30	-	-	V
Forward voltage	I _{F1} =0.1mA	V _F	-	-	0.24	V
	I _{F2} =1mA		-	-	0.32	
	I _{F3} =10mA		-	-	0.40	
	I _{F4} =30mA		-	-	0.50	
	I _{F5} =100mA		-	-	1.00	
Reverse voltage leakage current	V _R =25V	I _R	-	-	2	μA
Reverse recovery time	everse recovery time $I_F = I_R = 10 \text{mA}$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$		-	-	5	ns

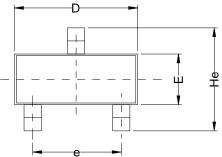
THERMAL RESISTANCES

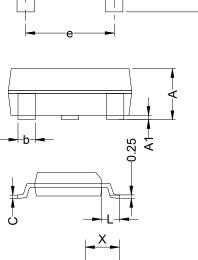
Symbo	I Parameter	JSPL0230AC	Unit
R _{th(j-a)}	Thermal resistance from junction to ambient	500	°C /W

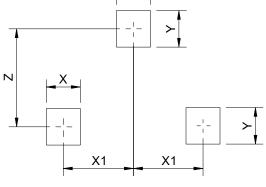
MARKING



PACKAGE MECHANICAL DATA



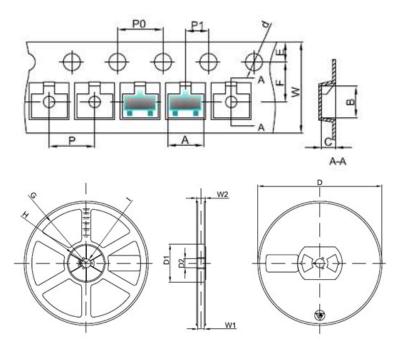




Land Pattern

Cumb ol	Millimeters			Inches		
Symbol	Min.	Тур.	Max.	Min.	Тур.	Max.
А	0.90	1.063	1.15	0.035	0.042	0.045
A1	0.00	0.075	0.14	0.000	0.003	0.006
b	0.30	0.40	0.50	0.012	0.016	0.020
С	0.07	0.10	0.15	0.003	0.004	0.006
D	2.80	2.90	3.00	0.110	0.114	0.118
е	1.80	1.90	2.00	0.071	0.075	0.079
E	1.20	1.30	1.40	0.047	0.051	0.055
L	0.55REF			0.022REF		
He	2.25	2.40	2.55	0.089	0.094	0.100
х	0.80		0.031			
X1	0.95		0.037			
Y	0.80			0.031		
Z	2.02			0.080		

TAPE AND REEL SPECIFICATION-SOT-23



Packaging Description:

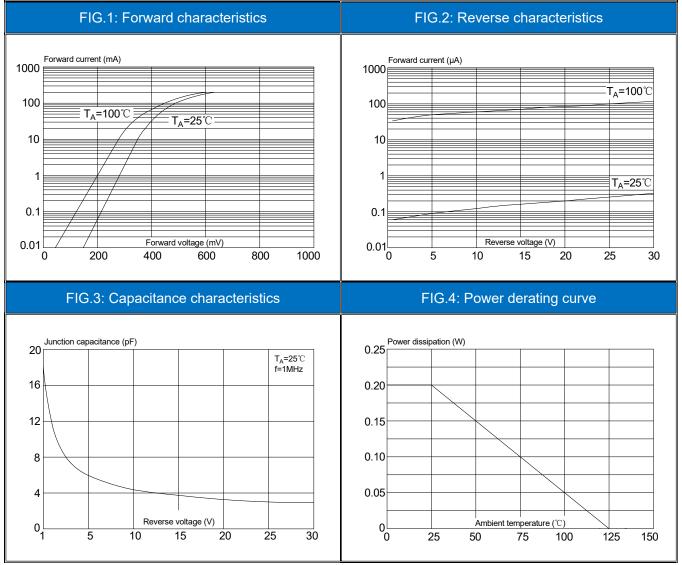
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative(carbon filled) polycarbonate resin. The cover tape is a multilayer film(heat activated adhesive in nature)primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000units per 7" or 17.8cm diameter reel. The reels are clear in color and made of polystyrene plastic(anti-static coated).

Cumhal	Millimeters	Inches	
Symbol	Тур.	Тур.	
A	3.15	0.124	
В	2.77	0.109	
С	1.22	0.048	
d	Φ1.50	Ф0.059	
E	1.75	0.069	
F	3.50	0.138	
P0	4.00	0.157	
Р	4.00	0.157	
P1	2.00	0.079	
W	8.00	0.315	
D	Ф178	Φ7.008	
D1	54.40	2.142	
D2	13.00	0.512	
G	R78.00	R3.071	
Н	R25.60	R1.008	
I	R6.50	R0.256	
W1	9.50	0.374	
W2	12.30	0.484	

ORDERING INFORMATION

OUTLINE	PACKAGE TYPE	QUANTITY REEL	DESCIPTION
TAPING	SOT-23	3,000	7 inch reel pack

CHARACTERITICS CURVE



JieJie products are not designed for, and shall not be used for, any purpose (including, without

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