

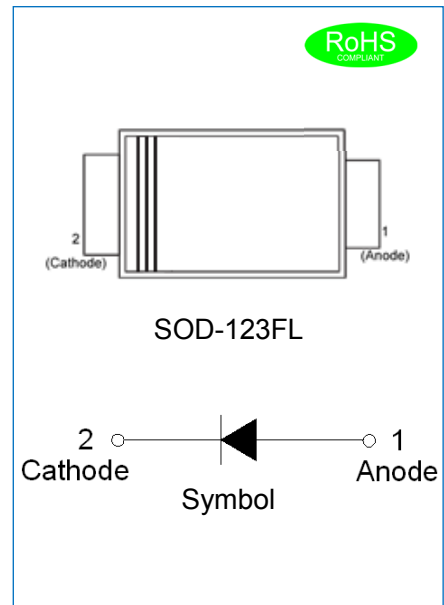


## JSPI240A~JSPI2200A 2A Schottky Barrier Rectifier

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 SOD-123FL 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	JSPI 240A	JSPI 260A	JSPI 2100A	JSPI 2150A	JSPI 2200A	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	$I_{F(AV)}$	2.0					A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50					A
Maximum forward voltage @ $I_F=2A$	$V_F$	0.55	0.7	0.85	0.9		V
Maximum DC reverse current at rated DC blocking voltage	$T_A=25^\circ C$	0.1					mA
	$T_A=100^\circ C$	10		8			
Typical junction capacitance $V_R=4.0V, f=1MHz$	$C_J$	150		110			pF
Operating junction temperature range	$T_j$	-55 to +125	-55 to +150				°C
Storage temperature range	$T_{stg}$	-55 to +150					°C

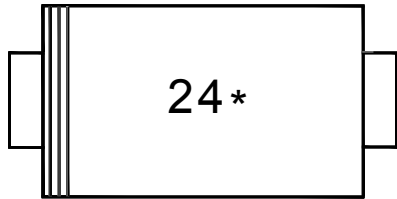


**THERMAL RESISTANCES**

Symbol	Parameter	JSPI 240A	JSPI 260A	JSPI 2100A	JSPI 2150A	JSPI 2200A	Unit
$R_{th(j-a)}$	Junction to ambient (note1)	85					$^{\circ}C/W$

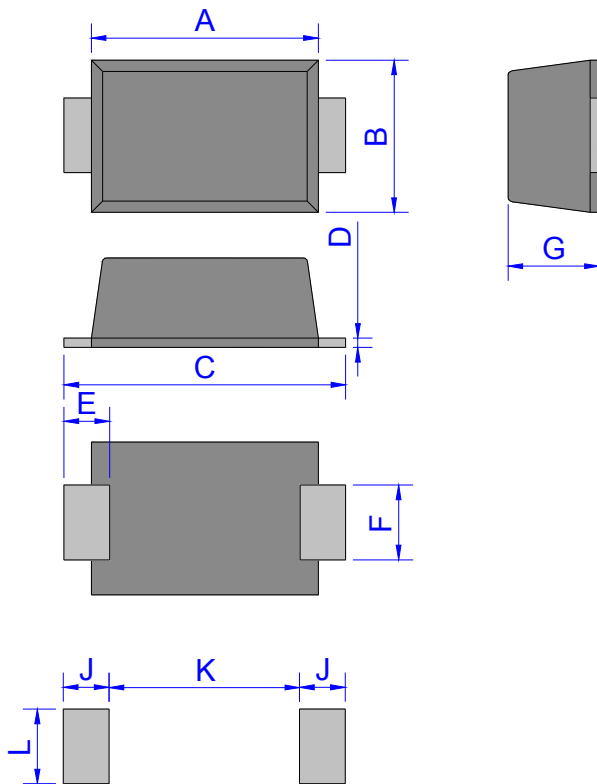
Note1: Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B mounted

**MARKING**



2	$I_{F(AV)}:2A$
4	$V_{RRM}:40V$
*	Chip code

**PACKAGE MECHANICAL DATA**

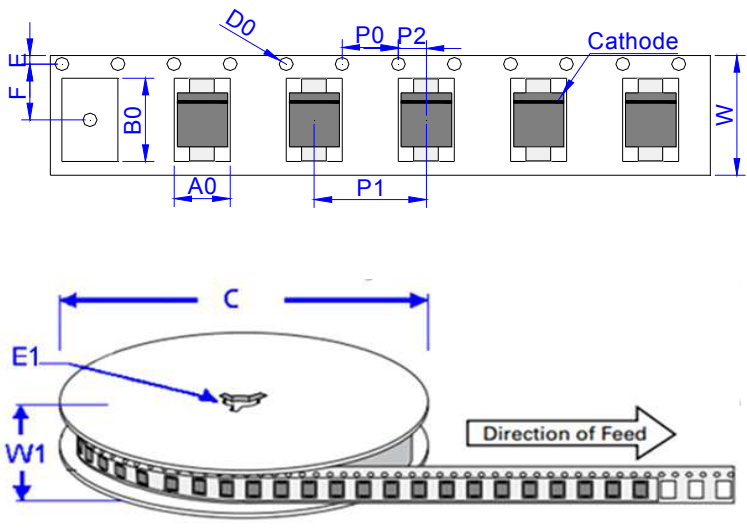


SOD-123FL

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	2.60	3.00	0.102	0.118
B	1.60	2.00	0.063	0.079
C	3.45	3.95	0.136	0.156
D	0.10	0.25	0.004	0.01
E	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	



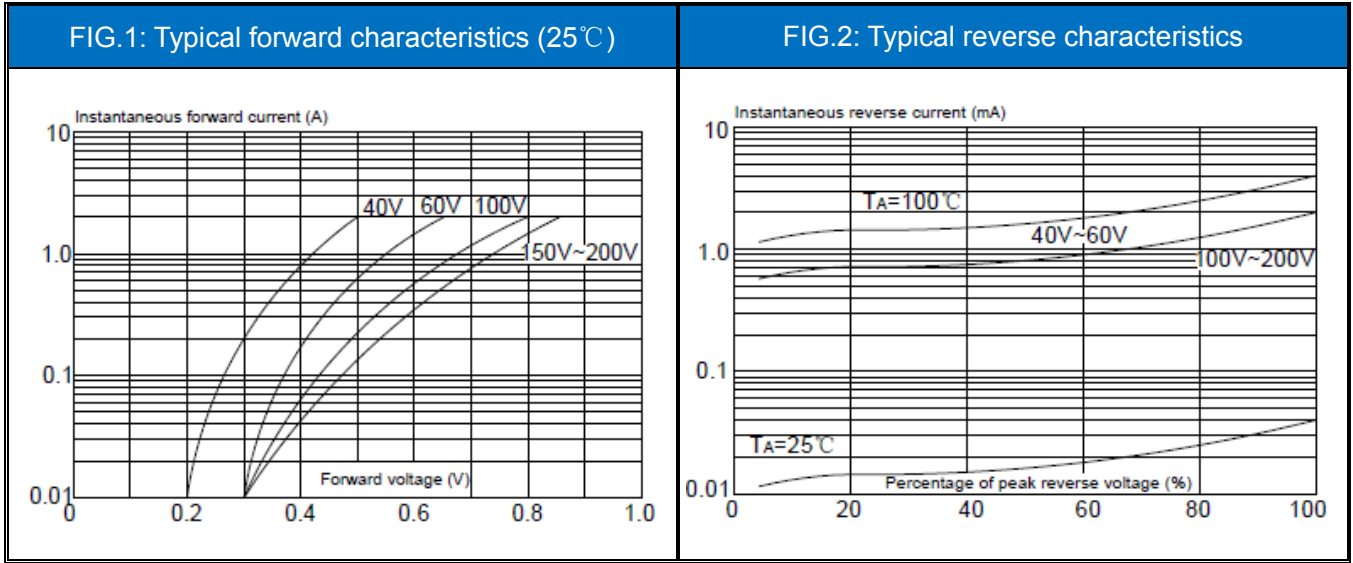
**TAPE AND REEL SPECIFICATION-SOD-123FL**



Ref.	Dimensions	
	Millimeters	Inches
A0	1.95 ± 0.3	0.077 ± 0.012
B0	3.95 ± 0.3	0.156 ± 0.012
C	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

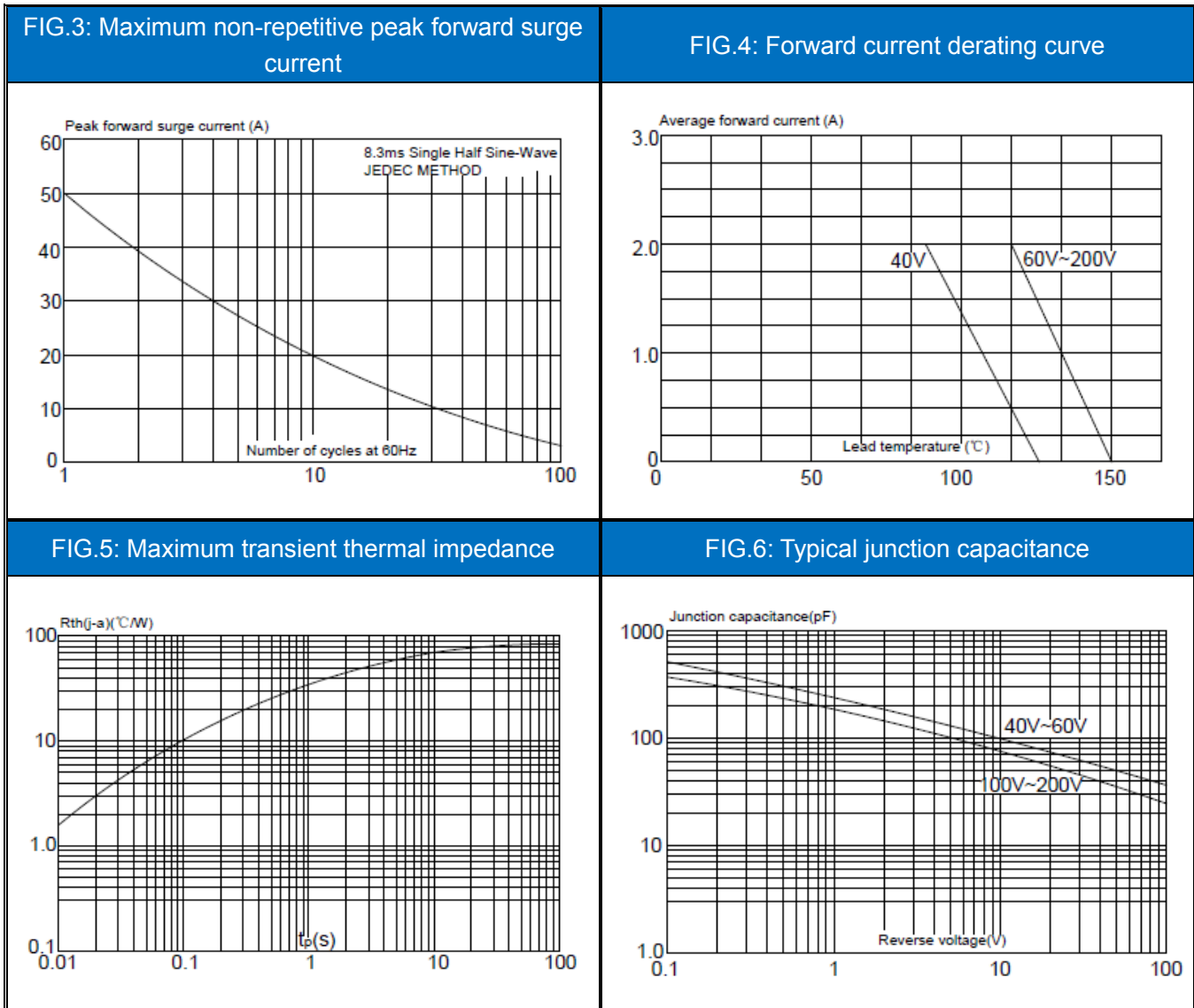
OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.0165	3,000	150,000	178

**CHARACTERISTICS CURVE**





## CHARACTERISTICS CURVE



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