

SMALL SURFACE MOUNT FAST DIODES

VOLTAGE 100 to 1000 Volt CURRENT 1 Ampere

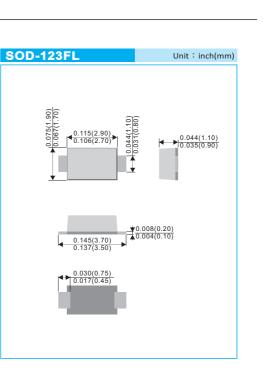
FEATURES

- For surface mounted applications in order to optimize board space
- Ideal for automated placement
- Glass Passivated Chip Junction
- High temperature soldering : 260°C / 10 seconds at terminals
- Ultra thin profile package for space constrained utilization
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case : JEDEC SOD-123FL, Molded plastic over passivated junction
- Terminals : Solderable per MIL-STD-750, Method 2026
- Standard Packaging : 8mm tape (EIA-481)
- Apporx. Weight : 0.0006 ounces, 0.0173 grams
- Polarity : Color band cathode





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

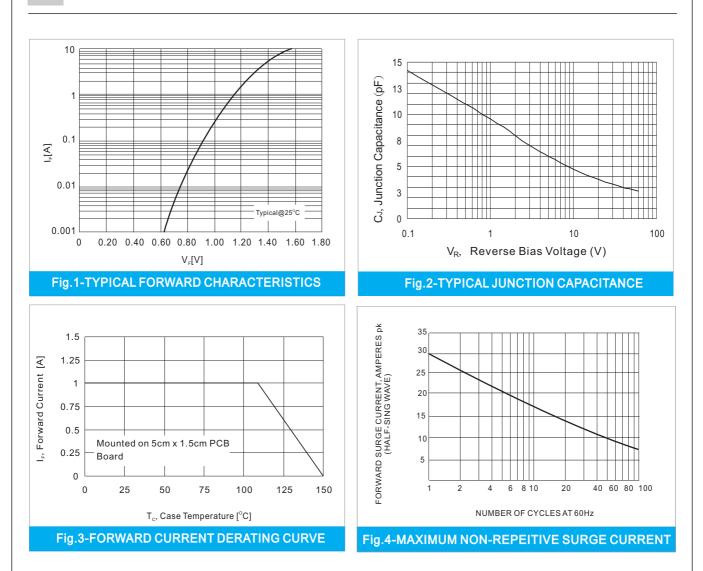
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Rating	Test condition	Symbol	RS1001FL	RS1002FL	RS1004FL	RS1006FL	RS1008FL	RS1010FL	Units
Marking code		-	R1B	R1D	R1G	R1J	R1K	R1M	-
Maximum repetitve peak reverse voltage		V _{RRM}	100	200	400	600	800	1000	V
Maximum rms voltage		V _{RMS}	70	140	280	420	560	700	V
Maximum dc blocking voltage		V _{DC}	100	200	400	600	800	1000	V
Maximum average forward rectified current Derate above $\rm T_{c}{=}110^{o}\rm C$		I _{F(AV)}	1						А
Maximum instantaneous forward voltage	0.7A 1A	V _F	1.15 1.3					V	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		FSM	30						А
Maximum dc reverse current at rated dc blocking voltage	T_=25°C T_=125°C	I _R	1 50						μΑ
Typical capacitance	4V,1MHz	C」	9						pF
Reverse recovery time	I _F =0.5A I _R =-1A I _{rr} =-0.25A	t "	150 250		5	00	nS		
Typical thermal resistance junction to ambient (Note1)		$R_{_{\Theta JA}}$	200						°C/W
Operating junction and storage temperature range		T_,T _{stg}	-55 to +150						°C

Note: 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

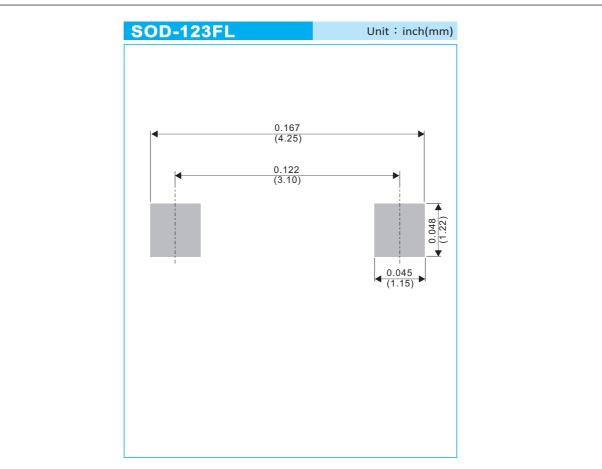








MOUNTING PAD LAYOUT



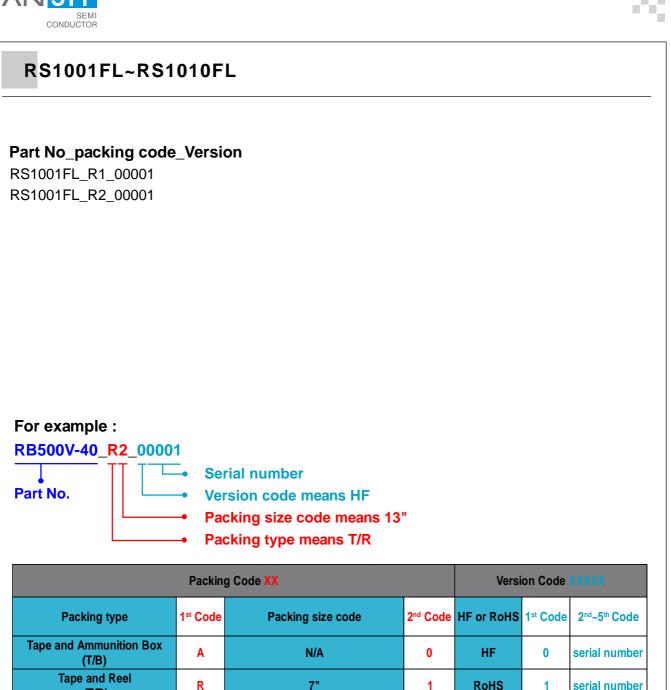
ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

2

Χ

Υ

U

D

(T/R) **Bulk Packing**

(B/P) **Tube Packing**

(T/P) Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

В

Т

S

L

F





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