

FB1100L thru FB1200L

SUFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

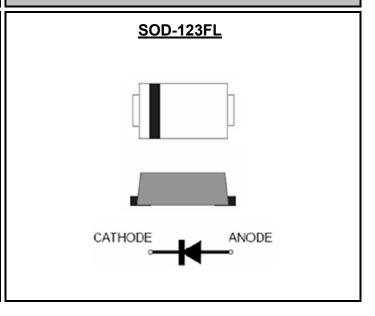
REVERSE VOLTAGE – 100 to 200 Volts FORWARD CURRENT –1.0 Ampere

FEATURES

- · Low power loss, high efficiency.
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications.
- · Guarding for over voltage protection.
- High temperature soldering guaranteed; 260°C/10 seconds at terminals.

MECHANICAL DATA

- Case: SOD-123FL molded plastic over sky die.
- Case material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl) "Halogen-free"
- Polarity: Color band denotes cathode end.
- · Mounting Position: Any.
- Weight: 15.5 mg (Approximate)



MAXIMUM RATINGS @ T_A = 25°C unless otherwise specified

The definition of the second o					
PARAMETER	SYMBOL	FB1100L	FB1150L	FB1200L	UNIT
Device marking code	Note	110	115	120	
Maximum repetitive peak reverse voltage	V_{RRM}	100	150	200	V
Maximum DC blocking voltage	V _{DC}	100	150	200	V
Maximum average for ward rectified current \textcircled{a} T _C = 75°C	I _{F(AV)}		1.0		Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}		30		А
Operating junction temperature range	TJ		-55 to +150		°C
Storage temperature range	T _{STG}	-65 to +175		°C	

STATIC ELECTRICAL CHARACTERISTICS @ T_A = 25°C unless otherwise specified

PARAMETER	TEST CC	NDITION	SYMBOL	FB1100L	FB1150L	FB1200L	UNIT
Forward voltage	IF = 0.1A IF = 0.7A IF = 1.0A	T _J = 25°C	V _F	0.85	0.90	0.92	V
Leakage current	VR at rated	T _A = 25°C T _J = 125°C	I _R	0.5 10			mA
Typical junction capac	tance at 4.0V,	1MHz	CJ	160			pF

THERMAL CHARACTERISTICS @ T_A = 25°C unless otherwise specified

PARAMETER	SYMBOL	TYP.	UNIT
Thermal resistance (Note 1)	RthJ _A RthJ _∟	110 40	°C/W

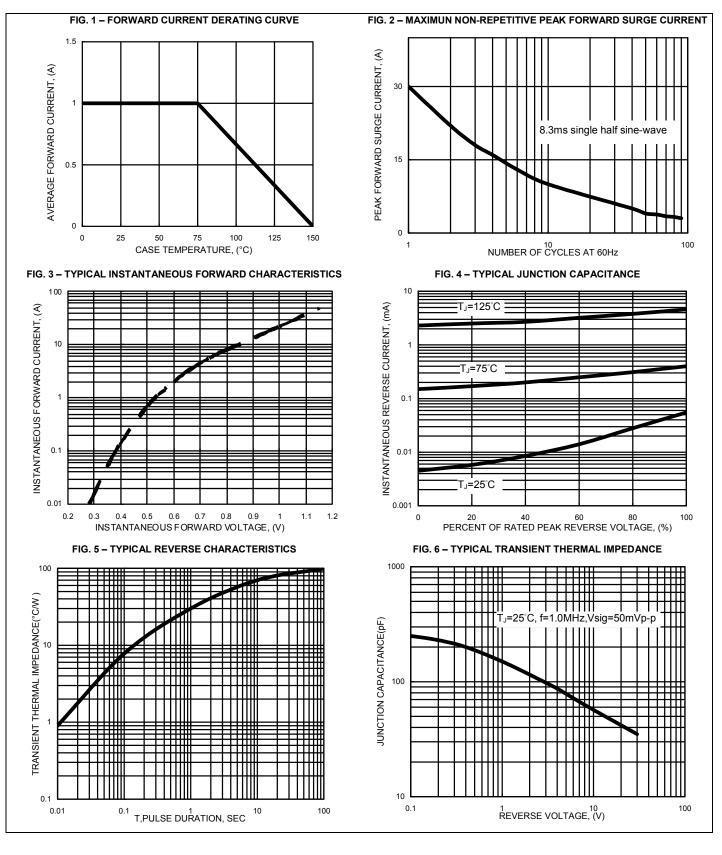
Note:

(1) 8.0mm² (0.013mm thick) land areas

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RATING AND CHARACTERISTIC CURVES FB1100L thru FB1200L

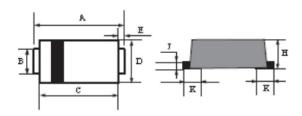






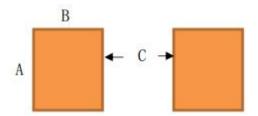
Package Dimensions:

SOD-123FL



DIM	MILLIM	ETERS	INCHES		
DIIVI	MIN	MAX	MIN	MAX	
Α	3.5	3.9	0.138	0.159	
В	0.75	0.95	0.029	0.037	
С	2.6	3.0	0.103	0.119	
D	1.6	2.0	0.063	0.079	
Е	0.45	Тур	0.018Typ		
Н	0.9	1.2	0.036	0.047	
J	0.12	0.22	0.005	0.009	
K	0.8Typ		0.032Typ		

Soldering Pad Layout:



Dimensions in inches and (millimeters)

PACKAGE	Α	В	С
SOD-123FL	0.044(1.10)	0.040(1.00)	0.079(2.00)



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