

SURFACE MOUNT FAST RECOVERY RECTIFIER

Crownpo Technology

Reverse Voltage: 50V to 1000V

Forward Current: 1.0Amp

FEATURES

*Plastic package has Underwriters Laboratory

Flammabiliy Classification 94V-O

- *For surface mounted applications
- * Low profile package
- *Easy pick and place
- * Built-in strain relief
- *Fast Recovery times for high efficiency
- *High temperature soldering: 260°C /10 seconds at terminals

MECHANICAL DATA

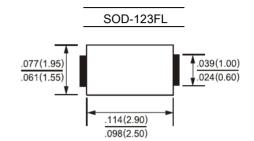
Case: Molded plastic, SOD-123FL

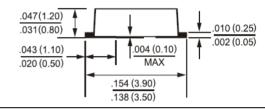
Terminals: Solder plated, solderable per MIL-STD-750,

method 2026 guaranteed

Polarity: Color band denotes cathode end Packaging: 8mm tape per EIA STD RS-481

Weight: 0.0006 ounce, 0.018 gram





Dimensions in inchs and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 $\ensuremath{^{\circ}}$ ambient temperature unless otherwise specified.

Single phase, half wave, $60\ensuremath{H_{Z}}$, resistive or inductive load.

For capacitive load, derate current by 20%.

Parameter		Symbols	RS1AFL	RS1BFL	RS1DFL	RS1GFL	RS1JFL	RS1KFL	RS1MFL	11.2
Marking Code			F1A	F1B	F1D	F1G	F1J	F1K	F1M	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	T _{TP} =65℃	I _{F(AV)}	1.4 (with heatsink) 1.0							А
	T _J =45℃									
Maximum Forward Voltage at	I _F =0.7A	V _F	1.15 1.30							V
	I _F =1.0A									
Maximum Reverse Current at $T_A = T_J = 25^{\circ}C$ at Rated DC Blocking Voltage $T_A = T_J = 100^{\circ}C$		I _R	5.0							μΑ
			100							
Typical Junction Capacitance (Note 1)		CJ	10							pF
Typical Thermal Resistance (Note 2)		R _{θ JA}	150							C/W
Maximum Reverse Recovery Time (Note 3)		T _{RR}	150 250 500					00	nS	
Operating Junction Temperature Range		TJ	-65 to +150							°C
Storage Temperature Range		Tstg	-65 to +150							°C

NOTES:

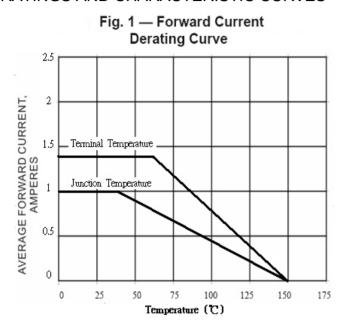
- 1- Measured at 1 MH_{Z} and applied reverse voltage of 4.0 VDC.
- 2- Thermal resistance from junction to lead mounted on P.C.B. with 0.3 x 0.3" (8.0 x 8.0mm) copper pad areas
- 3- Reverse Recovery Test Conditions : $I_F \! = \! 0.5 A \cdot I_R \! = \! 1.0 A \cdot I_{RR} \! = \! 0.25 A.$

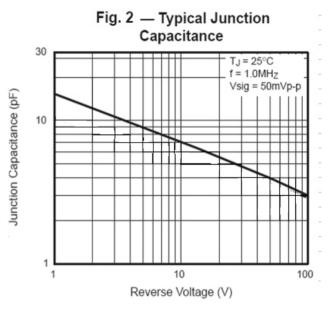
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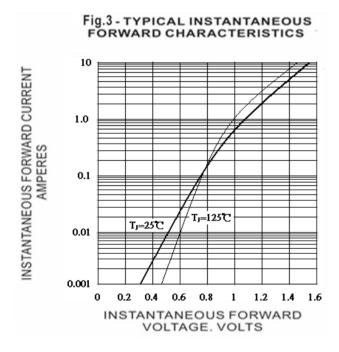


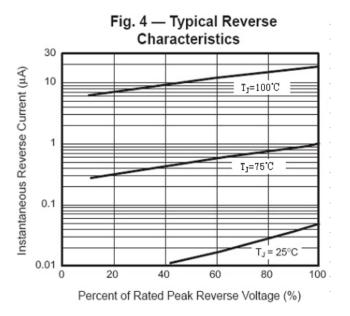
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RATINGS AND CHARACTERISTIC CURVES









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