

Schottky Barrier Rectifier multicomp^{PRO}

RoHS
Compliant



Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:
250 C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case	: JEDEC SOD-123FL molded plastic body
Terminals	: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity	: Colour band denotes cathode end
Mounting Position	: Any
Weight	: 0.0007 ounce, 0.02 grams

Maximum Ratings and Electrical Characteristics

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

Characteristics	Symbol	MP008615	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Maximum RMS Voltage	V_{RMS}	140	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	2.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I_{FSM}	50	A
Maximum Forward Voltage at 2.0A DC	V_F	0.85	V
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	I_R	0.2 2	mA
Typical junction capacitance (NOTE 1)	C_J	80	pF
Operating junction Temperature Range	T_J	-55 to + 175	°C
Storage Temperature Range	T_{STG}	-50 to + 150	

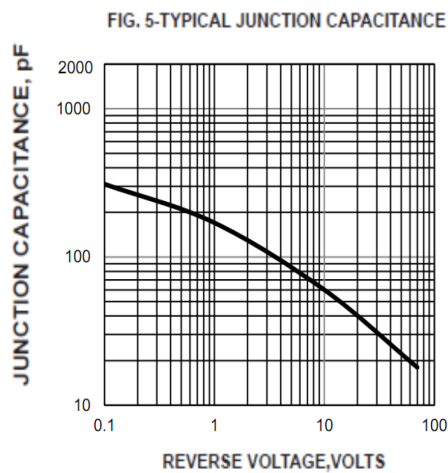
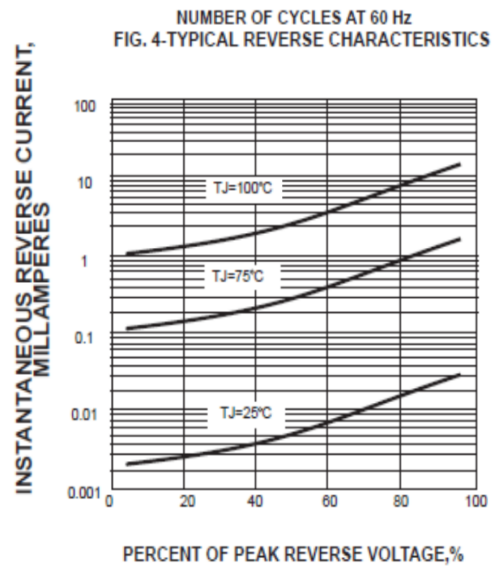
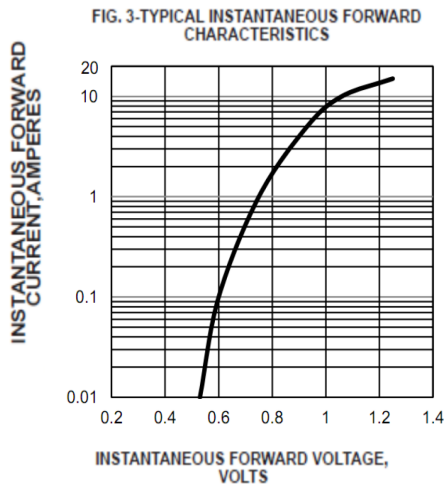
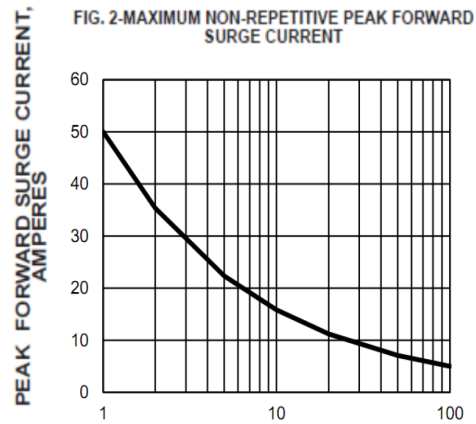
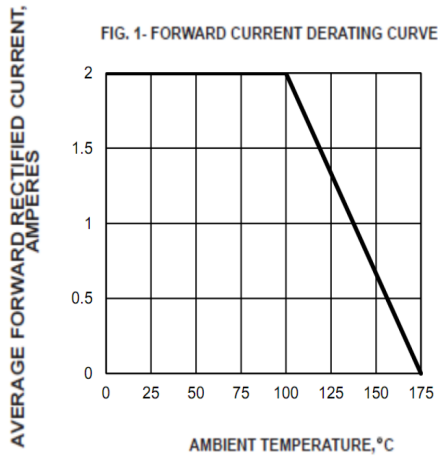
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. The typical data above is for reference only.

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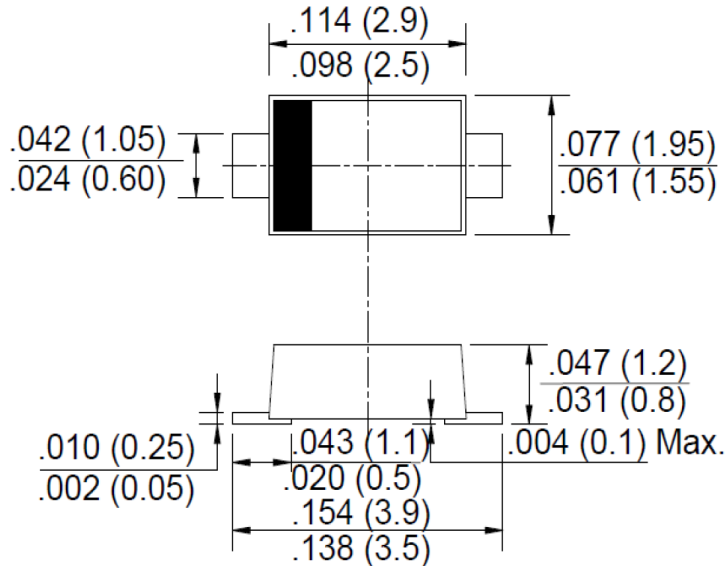
Rating and Characteristic Curves



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Package Dimensions

SOD-123FL



Dimensions : Millimetres

Part Number Table

Description	Part Number
Schottky Barrier Rectifier, 1A, 200V, SOD-123FL	MP008615

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