

Features

- · Glass passivated die construction
- Low forward voltage drop
- Hgh current capability
- · High surge current capability
- Designed for surface mount application • Plastic material-UL flammability 94V-0

Mechanical Data

· Case: SOD-123FL, molded plastic

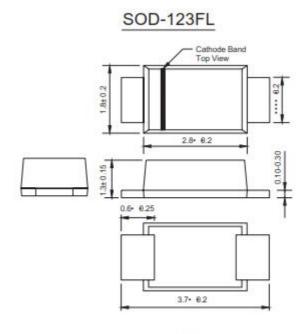
 Terminals: plated leads solderable per MIL-STD-202, Method 208

· Polarity: as marked on case

Mounting position: Any

· Marking: type number

· Lead Free: For RoHS / Lead Free Version,



Dimensions in millimeters

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%.

TYPE NUMBER	SYMBOL	RB160M-60	UNIT
Maximum repetitive peak reverse voltage	VRRM	60	
Maximum RMS voltage	VRMS	42	V
Maximum DC blocking voltage	VDC	60	
Average Rectified Output Current @T _A =90 ℃	lo	1.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İfsm	30	А
Forward Voltage per element @IF=3.0A(Note 1)	V _{FM}	0.7	V
Peak Reverse Current @T _A =25 °C At Rated DC Blocking Voltage @T _A =125 °C	IR	0.5 40	mA
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	85	°C/W
Operating and storage temperature range	Тл ,Твтв	-55 to +150	$^{\circ}$

Note:1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

- 2. Thermal resistance from junction to ambient an
- 3. d from junction to lead mounted on P.C.B with 0.5×0.5"(13×13mm)copper pads.

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