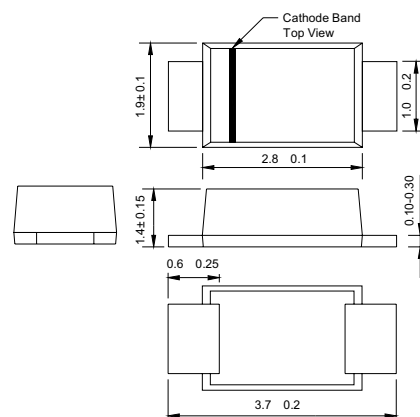


FEATURES

- Low profile package
- For surface mounted applications
- Ideal for automated placement
- Low power loss, high efficiency
- High temperature soldering:
250°C / 10 seconds at terminals



SOD-123FL

Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC SOD-123FL. molded plastic over passivated chip
- Polarity: Color band denotes cathode end
- Weight: 0.003 ounces, 0.01 gram
- Device marking code: B3

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

TA= 25°C unless otherwise specified.
Single has, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Symbol	MBRX0530	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	30	V
Maximum Working Peak Reverse Voltage	VRWM	30	V
Maximum DC Blocking Voltage	VR	30	V
Maximum Average Forward Rectified Current at rated VR @ TL = 100°C	I(AV)	0.5	A
Peak Forward Surge Current 8.3ms Single Half-Sine Wave Superimposed on Rated Load	IFSM	5.5	A
Maximum Instantaneous Forward Voltage	VF	@ IF = 0.1A, TJ = 25°C 0.375	V
		IF = 0.5A, TJ = 25°C 0.43	
Maximum DC Reverse Current Rated DC Blocking Voltage	IR	@ Rated dc Voltage, TC = 25°C 130	µA
		VR = 15V, TC = 25°C 20	
Typical Thermal Resistance Junction to Ambient (Note)	ROJA	206.0	°C/W
Typical Thermal Resistance Junction to Lead	ROJL	150	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	TSTG	-55 to +150	°C

NOTE: 1" square pad size (1 x 0.5" for each lead) on FR4 board.

MBRX0530R = Taped & Reel (5Kpcs/Reel)

■ RATINGS & CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

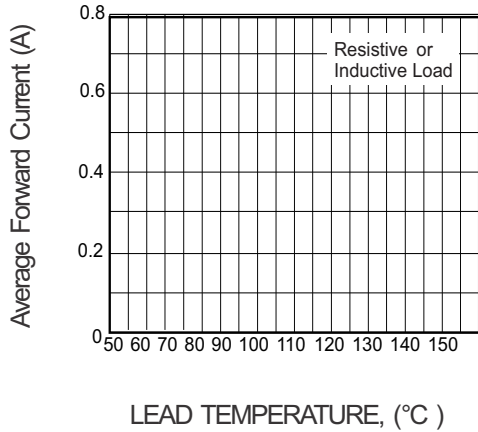


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

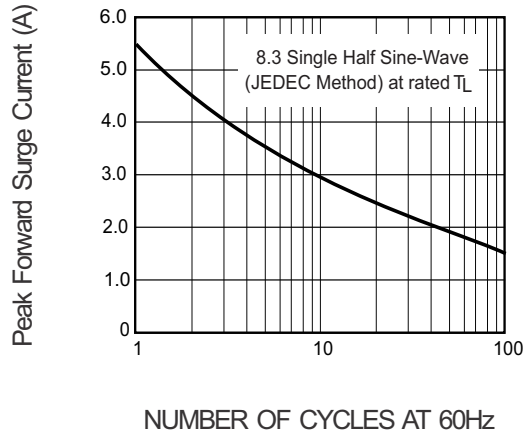


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

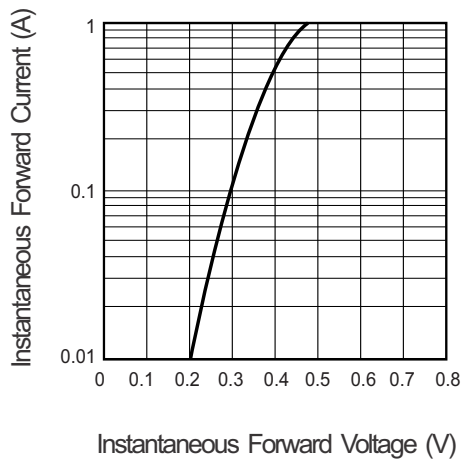


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

