

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

MBRX220H--MBRX260H

FEATURES

- Low forward surge current
- Ideal for surface mounted applications
- Low leakage current



Lead-free



MECHANICAL DATA

- Case: JEDEC SOD-123FL, molded plastic over passivated chip
- Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	MBRX220H	MBRX230H	MBRX240H	MBRX260H	UNITS
Device marking code		H22	H23	H24	H26	
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	60	V
Maximum RMS voltage	V_{RMS}	14	21	28	42	V
Maximum DC blocking voltage	V_{DC}	20	30	40	60	V
Maximum average forward rectified current $T_J=90^{\circ}\text{C}$	$I_{(AV)}$	2.0				A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	40				A

Thermal Characteristics

Characteristic	Symbol	MBRX220H	MBRX230H	MBRX240H	MBRX260H	UNITS
Operating temperature range	T_J	- 55 --- + 150				$^{\circ}\text{C}$
Storage temperature range	T_{STG}	- 55 --- + 150				$^{\circ}\text{C}$

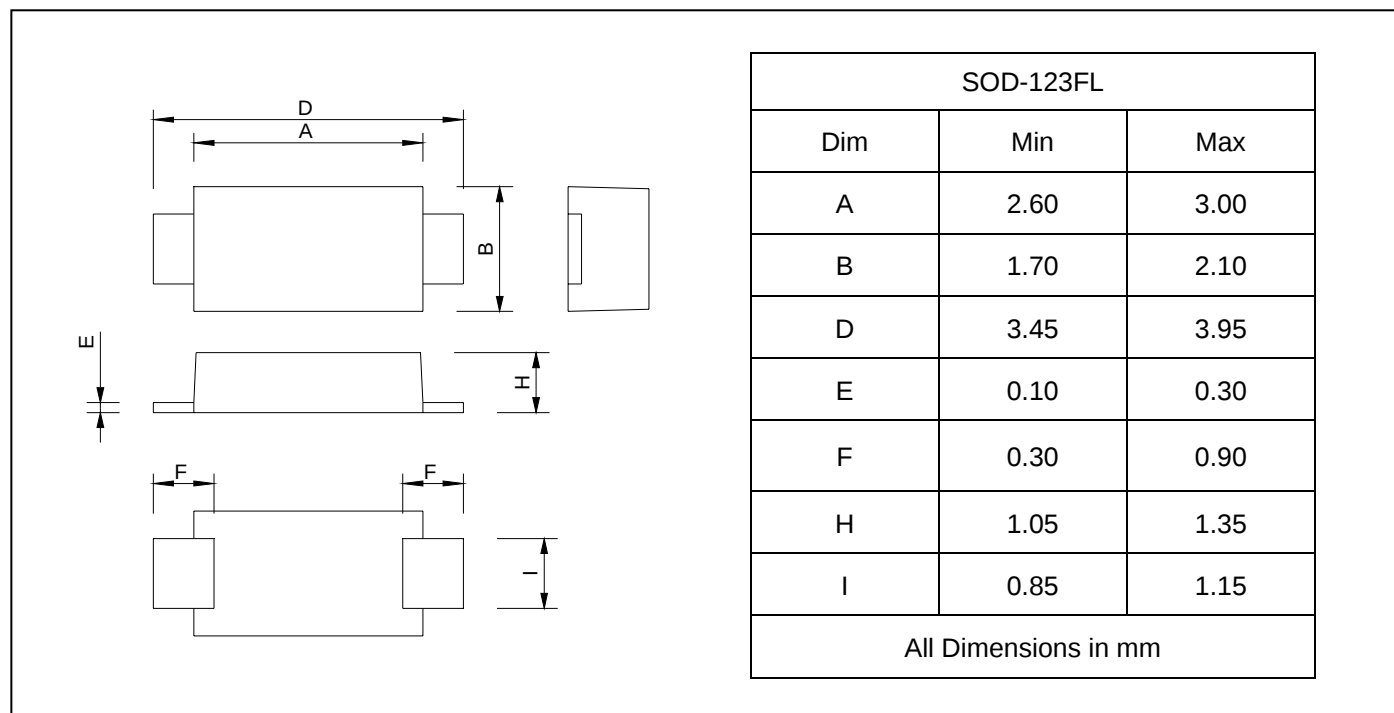
Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	MBRX220H	MBRX230H	MBRX240H	MBRX260H	UNITS
Maximum instantaneous @ $I_{FM}=2.0\text{A}$ forward voltage	V_F	0.55			0.75	V
Maximum DC reverse current $T_J=25^{\circ}\text{C}$ at rated DC blocking voltage $T_J=125^{\circ}\text{C}$	I_R	0.1 10				m A

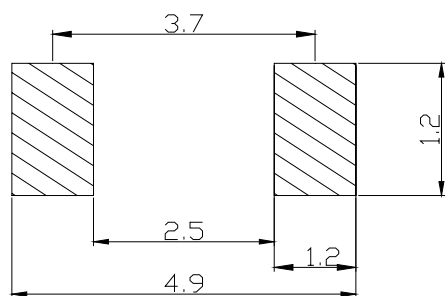
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PACKAGE OUTLINE DIMENSIONS



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
MBRX220H--MBRX260H	SOD-123FL	10000/Tape&Reel

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

MBRX220H--MBRX260H

FIG.1 – FORWARD DERATING CURVE

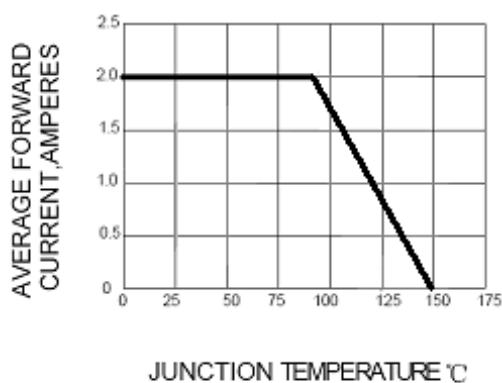


FIG.2– PEAK FORWARD SURGE CURRENT

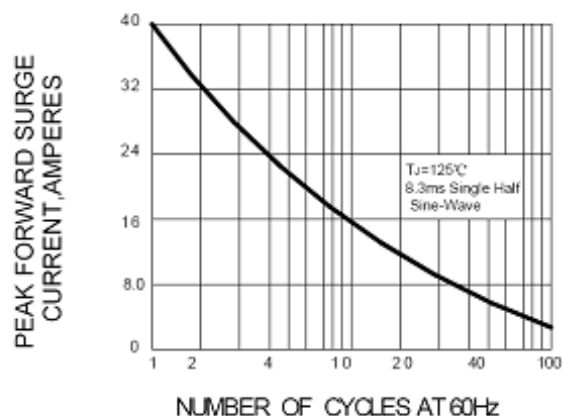


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

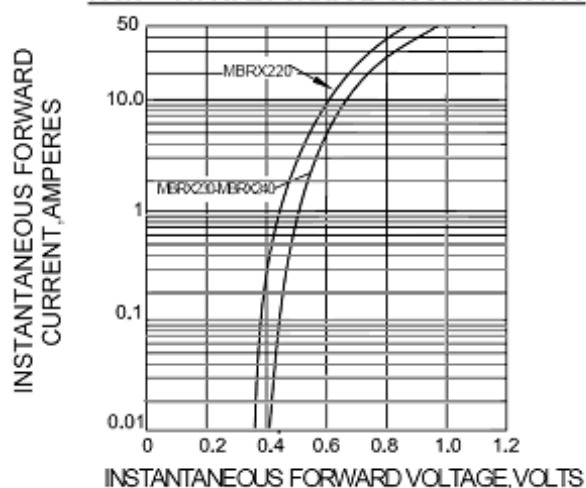


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

