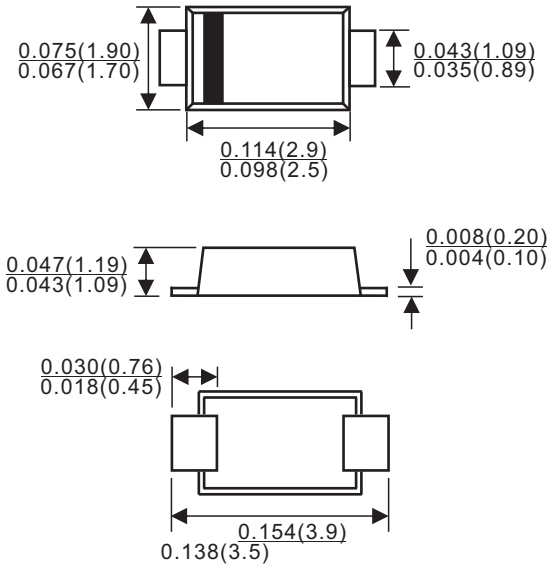
MBRX120-MBRX1200

Surface Mount Schottky Barrier Rectifiers

REVERSE VOLTAGE: 20 - 100 V

CURRENT: 1.0 A

SOD-123FL



Dimensions in inches and(millimeters)

Features

- ✧ Low forward surge current
- ✧ Ideal for surface mouted applications
- ✧ Low leakage current

Mechanical Data

- ✧ Case:JEDEC SOD-123FL,molded plastic over passivated chip
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.0008 ounces, 0.022 gram
- ✧ Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single hase,half wave,60Hz,resistive or inductive load.For capactive load,derate current by 20%.

ELECTRICAL CHARACTERISTICS

		MBRX 120	MBRX 130	MBRX 140	MBRX 160	MBRX 180	MBRX 1100	MBRX 1200	UNITS
Device marking code		S2	S3	S4	S6	S8	S11	S12	
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	60	80	100	200	V
Maximum RMS voltage	V_{RMS}	14	21	28	42	56	70	140	V
Maximum DC blocking voltage	V_{DC}	20	30	40	60	80	100	200	V
Maximum average forword rectified current T_J=90℃	$I_{(AV)}$	1.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	20							A
Maximum instantaneous forward voltage @I_{FM}=1.0A	V_F	0.50	0.55		0.72	0.85		0.95	V
Repetitive peak reverse current at rated DC blocking voltage	I_R	0.3							m A
Typical junction capacitance	C_J	30							p F
Operating temperature range	T_j	- 55 --- + 150				- 55 --- + 175			℃
Storage temperature range	T_{STG}	- 55 --- + 150				- 55 --- + 175			℃

NOTE1.Measured at f=1.0MHz,V_R=4.0V

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Ratings AND Charactieristic Curves

FIG.1 – FORWARD DERATING CURVE

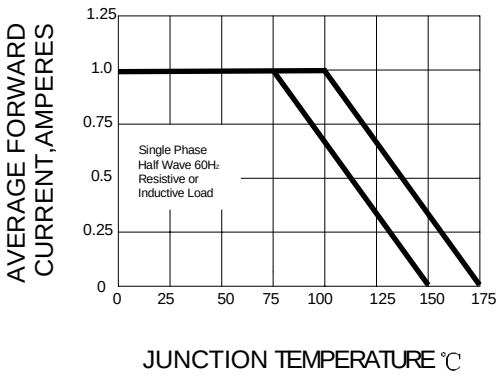


FIG.2– PEAK FORWARD SURGE CURRENT

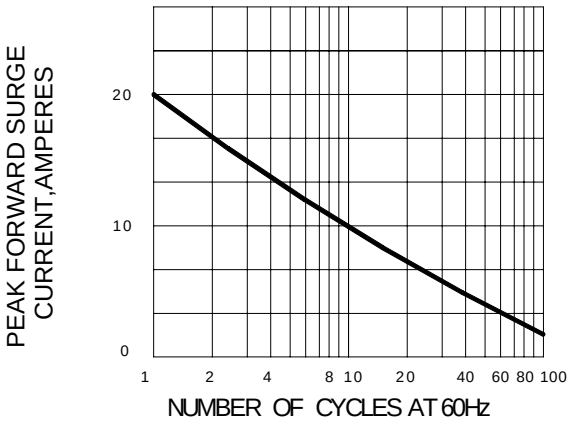


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

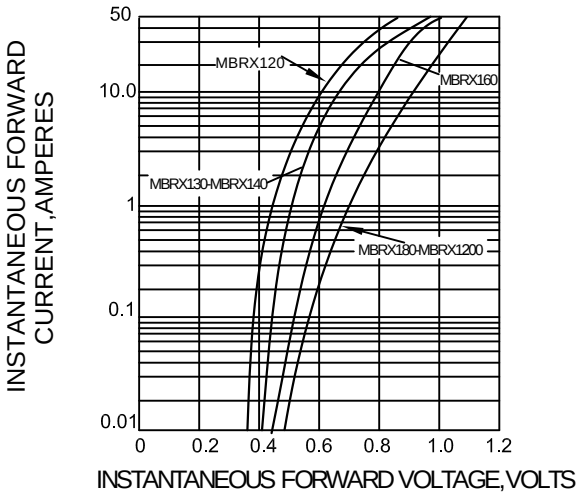


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

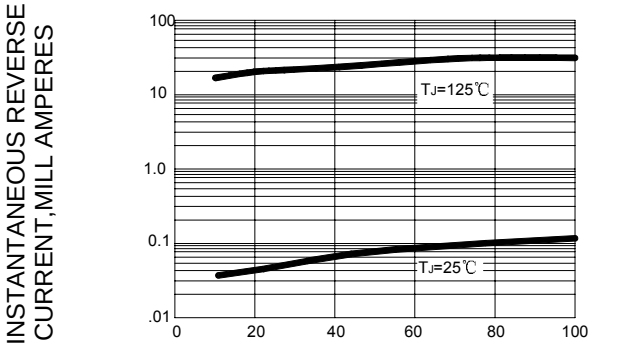
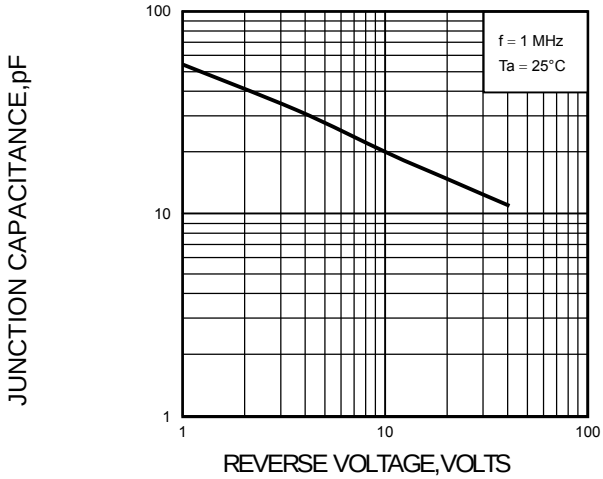


FIG.5–TYPICAL JUNCTION CAPACITANCE



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SOD-123FL	3000/REEL	90000	40X20X22	5.00	4.00