

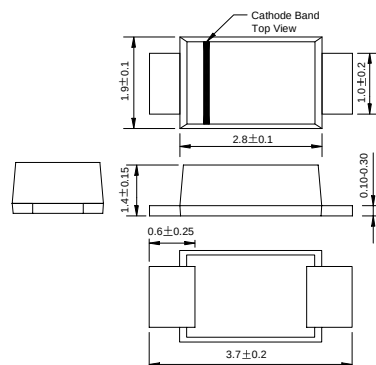


Features

- ◇ 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



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

ELECTRICAL CHARACTERISTICS

		MBRX 120	MBRX 130	MBRX 140	MBRX 160	MBRX 180	MBRX 1A0	UNITS
Device marking code		S2	S3	S4	S6	S8	SA	
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	42	56	70	V
Maximum DC blocking voltage	V _{DC}	20	30	40	60	80	100	V
Maximum average forward rectified current T _J =90°C	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 @I _{FM} =1.0A forward voltage	V _F	0.50	0.55		0.72	0.85		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 --- + 125						°C
Storage temperature range	T _{STG}	- 55 --- + 150						°C

NOTE1.Measured at f=1.0MHz, $V_R=4.0\text{V}$

Ratings AND Characteristic Curves

FIG.1 – FORWARD DERATING CURVE

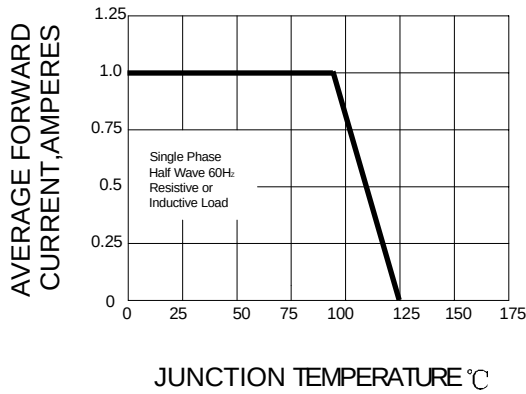


FIG.2– PEAK FORWARD SURGE CURRENT

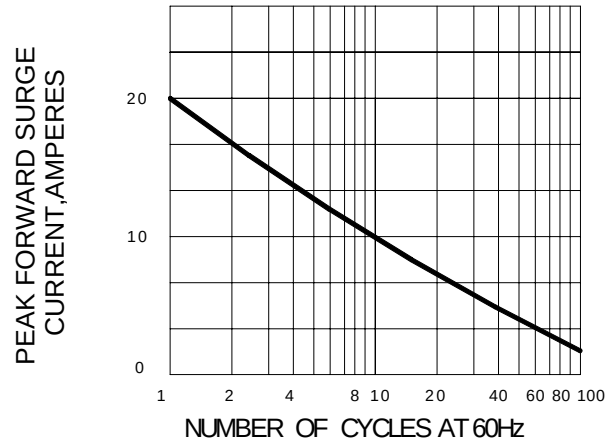


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

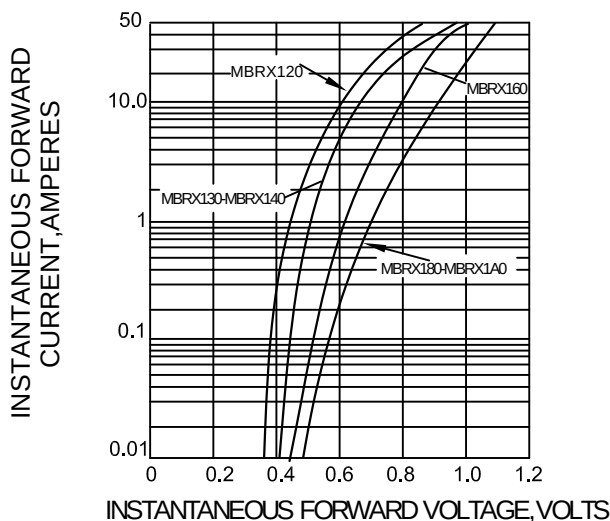


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

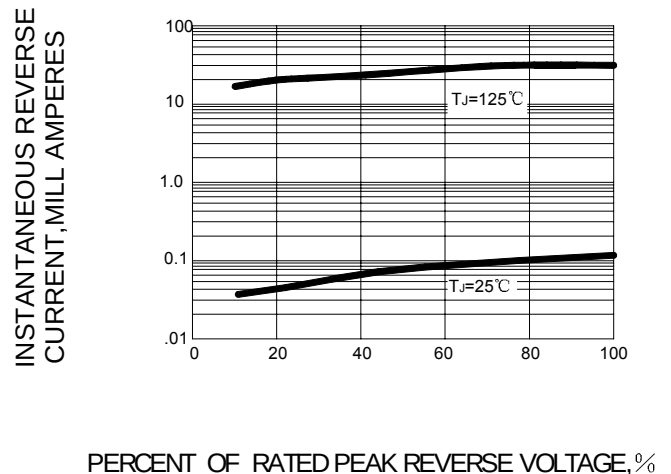


FIG.5–TYPICAL JUNCTION CAPACITANCE

