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RBR2MM30ATFTR

Schottky Barrier Rectifiers

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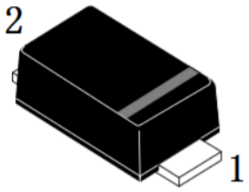
FEATURES

- Low power losses, high efficiency.
- Guardring for over voltage protection.
- For use in low voltage high frequency inverters, free wheeling,and polarity protection applications
- We declare that the material of product compliance with RoHS requirements and Halogen Free.



SOD123FL

Electrical Characteristic

Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol		Unit
Maximum repetitive peak reverse voltage	V_{RRM}	30	V
Maximum RMS voltage	V_{RMS}	21	V
Maximum DC blocking voltage	V_{DC}	30	V
Maximum average forward rectified current at TC = 75°C	$I_{F(AV)}$	2.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50	A
Typical thermal resistance (Note 1)	$R\theta J_A$	85	°C/W
Operating junction temperature range	T_J	–55 to +150	°C
storage temperature range	T_{STG}	–65 to +175	°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol		Unit
Maximum instantaneous forward voltage at 2.0A	V_F	0.50	V
Maximum DC reverse current at rated DC blocking voltage T_A = 25℃ Tj = 100 ℃	I_R	0.5 20	mA
Typical junction capacitance at 4.0V, 1MHz	C_J	160	PF

Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

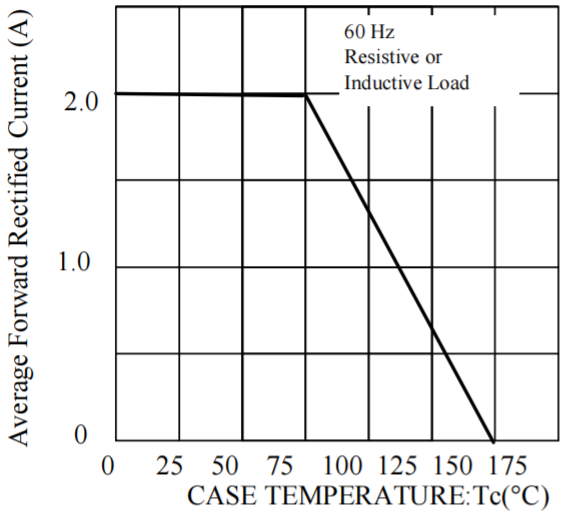


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

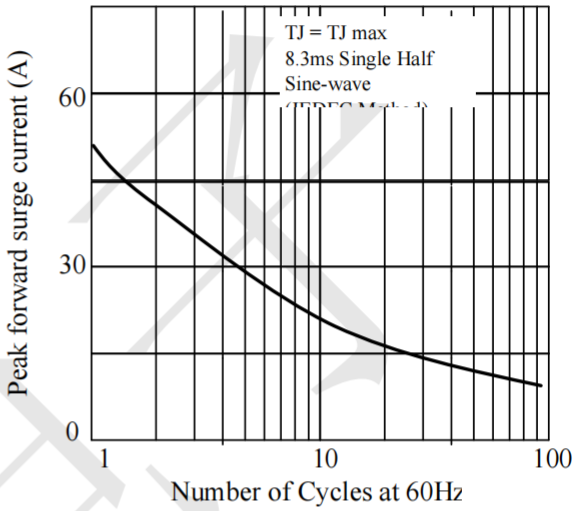


Fig 3. - Typical Instantaneous Forward Characteristics

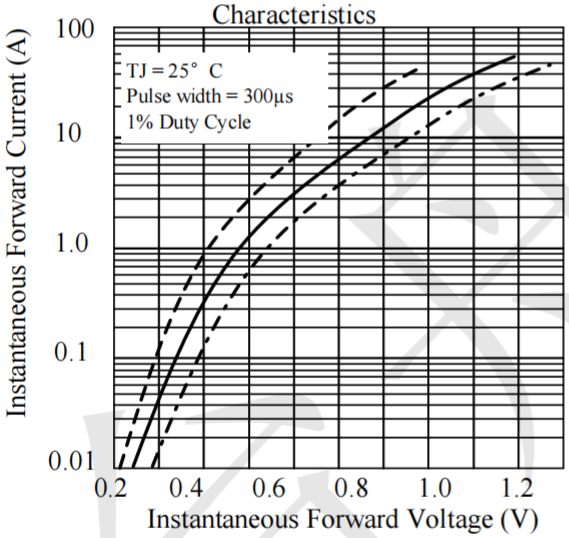


Fig 4. - Typical Reverse Characteristics

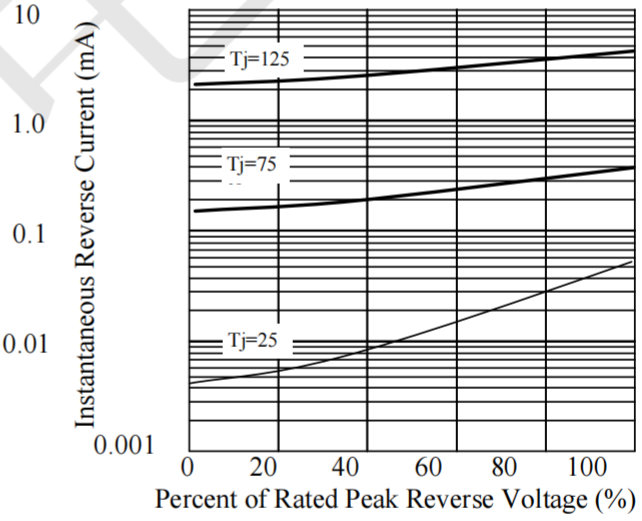


Fig 5. - typical transient thermal impedance

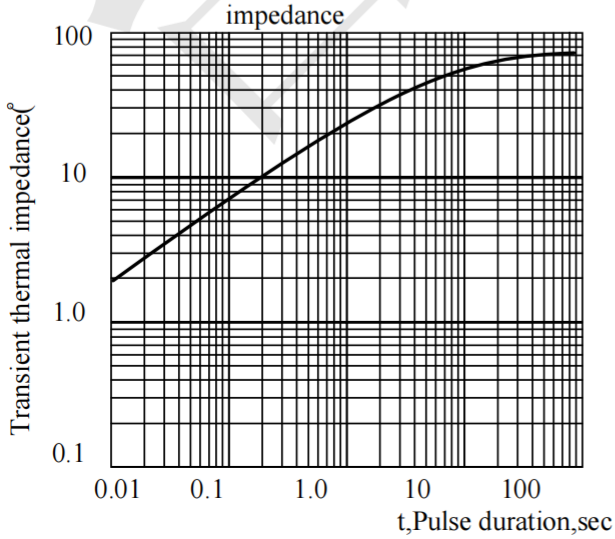
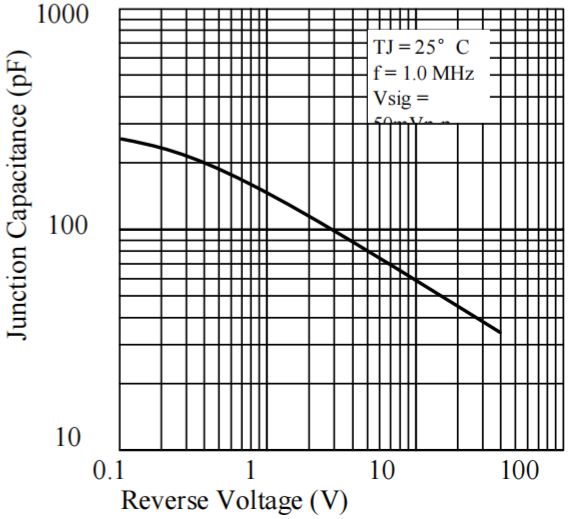
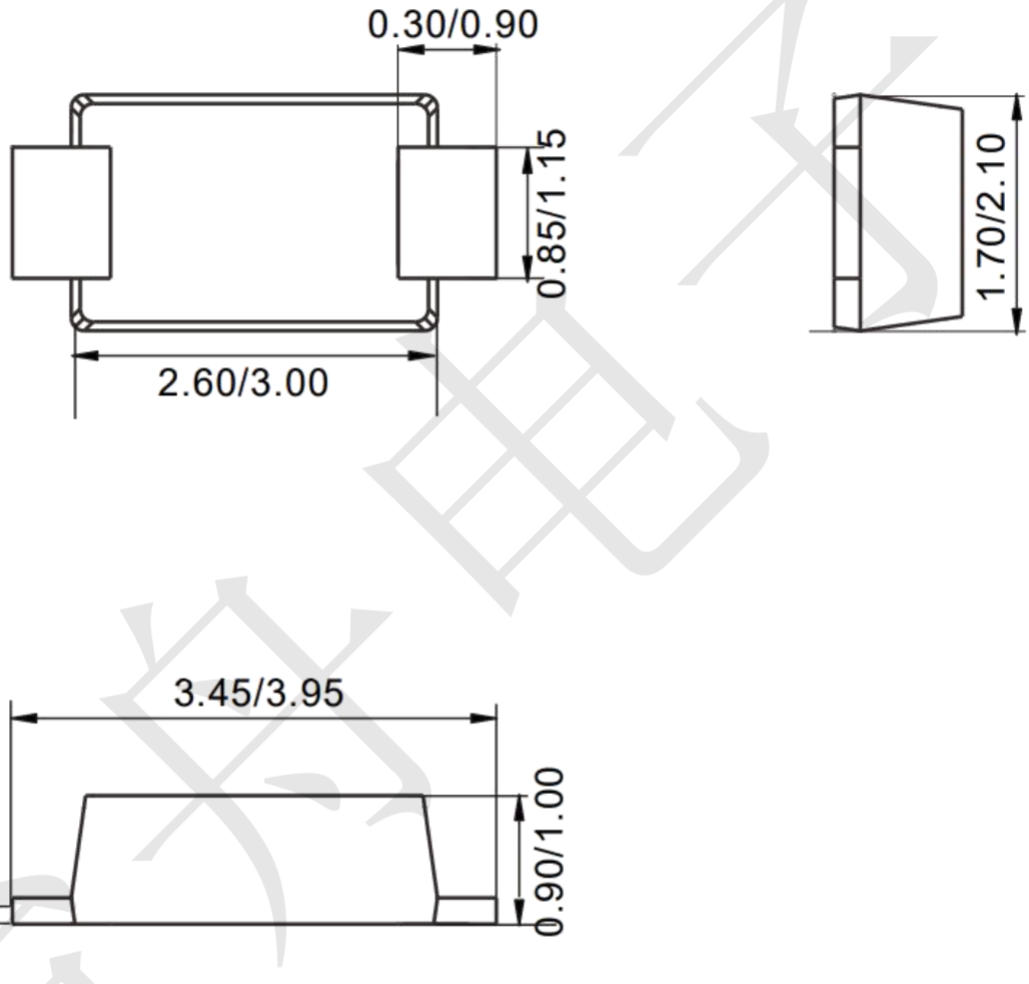


Fig 6. - Typical Junction Capacitance



Package Outline Dimensions (unit: mm)

SOD-123FL



Mounting Pad Layout (unit: mm)