

III. Fast / Ultra Fast / Super Fast Recovery Rectifier

5.0A Surface Mount Fast Recovery Rectifier RS5AB~RS5MB (Package: SMB (DO-214AA))

FEATURES

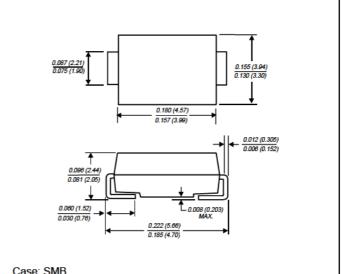
- · For surface mounted applications.
- · Glass passivated junction chip.
- · Built-in strain relief, ideal for automated placement.
- · Plastic material used carries Underwriters Laboratory Flammability Classification 94V-0.
- · Fast switching for high efficiency.
- High temperature soldering : 250°C/10 seconds at terminals.

MECHANICAL DATA

 Case: Molded plastic · Terminals : Solder plated

· Polarity: Indicated by cathode band

· Weight: 0.090 grams



Dimensions in inches and (millimetres)

Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristics	Symbol	RS5AB	RS5BB	RS5DB	RS5GB	RS5JB	RS5KB	RS5MB	Units
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current See Fig. 1 @T∟=110°C	lo	5.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load. (JEDEC Method)	I _{FSM}	150							Amps
Maximum instantaneous forward voltage @ 5.0 A	V _F	1.3							Volts
Maximum DC reverse current @Ta =25°C at rated DC blocking voltage @Ta =100°C	I _R	10 200							μA
Maximum reverse recovery time (Note 1)	Trr	150 250 500				00	ns		
Typical junction capacitance (Note 2)	Cj	78							PF
Typical thermal resistance	Rth-JA	50.0							°C/W
Operating temperature range	Tj	-65 to +150							$^{\circ}\!\mathbb{C}$
Storage temperature range	Tstg	-65 to +150							$^{\circ}\!\mathbb{C}$

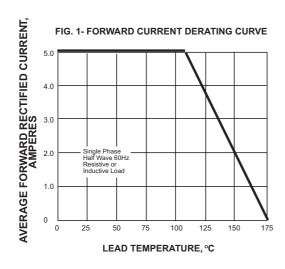
Notes:

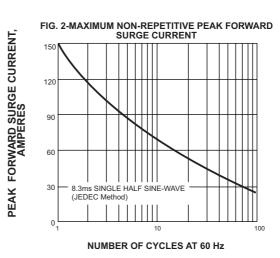
- Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
- 2. Measured at 1.0 MHz and applied V_R =4.0V.

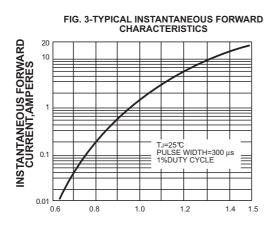
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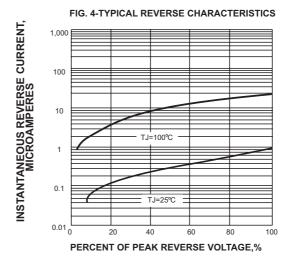


Ratings and Characteristic Curves of RS5AB~RS5MB

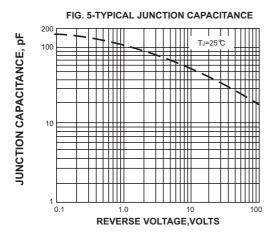


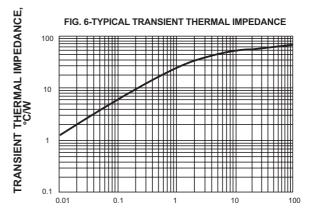












t,PULSE DURATION,sec.

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