

旭昌科技

RB1A THRU RB1M

SURFACE MOUNTED FAST RECOVERY RECTIFIER

VOLTAGE: 50 TO 1000V CURRENT: 1.0A

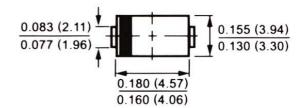
SMB/DO-214AA

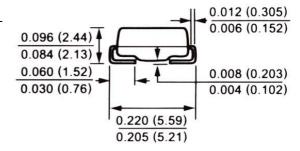
Features

- Glass passivated junction chip
- ◆ For surface mounted application
- ◆ Low profile package
- ♦ Built-in strain relief
- High surge capability
- ◆ High temperature soldering guaranteed
 250°C/10sec/at terminal/complete device
- ◆ Fast recovery time for high efficiency

Mechanical data

- ◆ Cases: Molded with UL-94 class V-0 recognized Flame Retardant Epoxy
- ◆ Terminals: Plated axial leads solderable MIL-STD 202E, method 208C
- ◆ Polarity: Color band denote cathode end
- ♦ Weight: 0.003 ounce, 0.093 gram





Maximum ratings and electrical characteristics

Dimensions in inches and (millimeters)

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbols	RB1A	RB1B	RB1D	RB1G	RB1J	RB1K	RB1M	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	550	700	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 3/8" lead length at T_L =100 $^{\circ}$ C	I _{F(AV)}	1.0							Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30.0							Α
Maximum instantaneous forward voltage at rated forward current	V _F	1.3							V
Maximum DC reverse current Ta=25°C	5.0								μΑ
At rated DC blocking voltage Ta=125℃	I _R 100.00							μΑ	
Maximum Reverse Recovery Time	T _{rr}	150 250 500				00	nS		
Typical junction capacitance	Сл	10.0							pF
Typical thermal resistance	R_{JA}	32.0							°C/W
Storage and operating junction temperature	T _{STG}	-50 to +150							$^{\circ}$ C

Notes: 1. Measured at 1.0MHz and applied voltage of 4.0Vdc

- 2. Thermal resistance from junction to terminal mounted on 5×5mm copper pad area
- 3. Reverse recovery condition If=1.0A,Irr=0.25A