DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

RS1ABF THRU RS1MBF

TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

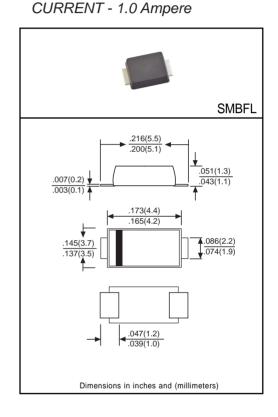
- * Ideal for surface mounted applications
- * Low leakage current
- * Glass passivated junction
- * High efficiency
- * Fast reverse recovery time

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- *Terminals: Solder plated, solderable per
 - MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.06 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



		SYMBOL	RS1ABF	RS1BBF	RS1DBF	RS1GBF	RS1JBF	RS1KBF	RS1MBF	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 65°C		lo	1.0							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	30							Amps
Maximum Forward Voltage at 1.0A DC		VF	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	la	5.0						μAmps	
	@T _A = 125°C	IR	50							
Maximum Reverse Recovery Time (Note 1)		trr		150		250	500		nSec	
Typical Thermal Resistance (Note 2)		Reja	85							°C/W
Typical Junction Capacitance (Note 3)		Cj	15							pF
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150							° C

NOTES : 1. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

2. P.C.B. mounted with 0.5x0.5 in² (12.7x12.7mm²) copper pads to each terminal.

3. Measured at 1MHz and applied reverse voltage of 4VDC.

RATING AND CHARACTERISTIC CURVES (RS1ABF THRU RS1MBF)

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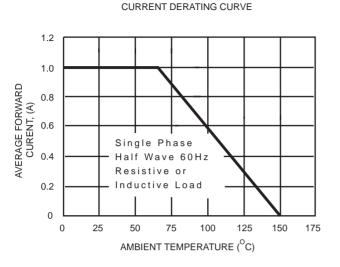
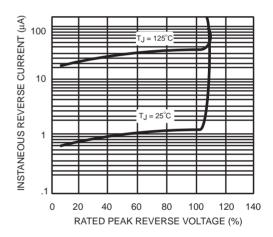
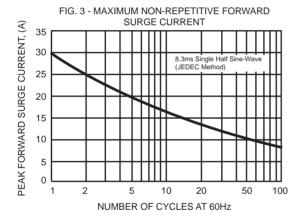


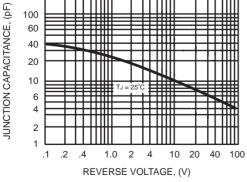
FIG. 1 - TYPICAL FORWARD

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS









REV-3,MAR,2017

FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

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