

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

RS2ABF THRU RS2MBF

TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

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

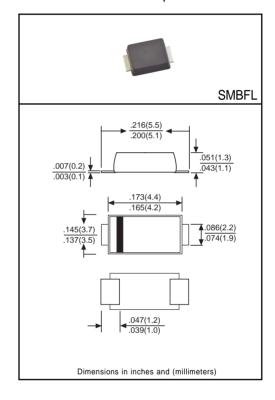
MIL-STD-750, Method 2026

* Polarity: As marked * Mounting position: Any * Weight: 0.03 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



		SYMBOL	RS2ABF	RS2BBF	RS2DBF	RS2GBF	RS2JBF	RS2KBF	RS2MBF	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	2.0							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	50						Amps	
Maximum Forward Voltage at 2.0A DC		VF	1.3						Volts	
Maximum DC Reverse Current at	@Ta = 25°C	l _R	5.0							μAmps
Rated DC Blocking Voltage	@T _A = 125°C	IR	100							
Maximum Reverse Recovery Time (Note 1)		trr		150			250	50	00	nSec
Typical Thermal Resistance (Note 2)		Reja	65						°C/W	
Typical Junction Capacitance (Note 3)		Cj	40							pF
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150							٥C

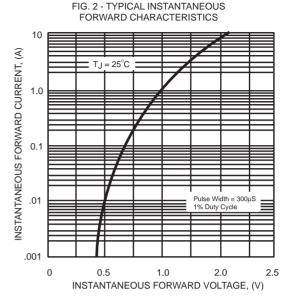
NOTES: 1. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A,

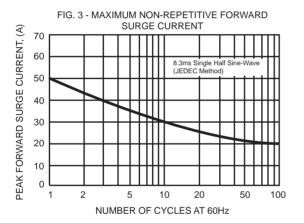
- 2. P.C.B. mounted with 0.5x0.5 in² (12.7x12.7mm²) copper pads to each terminal.
- 3. Measured at 1MHz and applied reverse voltage of 4VDC.

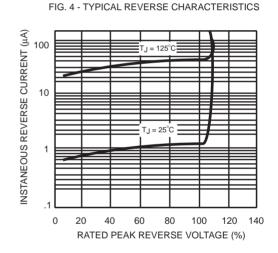
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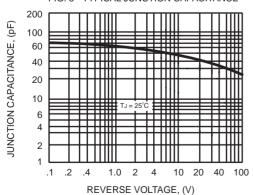
RATING AND CHARACTERISTIC CURVES (RS2ABF THRU RS2MBF)

FIG. 1 - TYPICAL FORWARD **CURRENT DERATING CURVE** 3.0 2.5 AVERAGE FORWARD 2.0 CURENT, (A) 1.5 Single Phase 1.0 Half Wave 60Hz Resistive o r 0.5 Load 0 25 75 100 125 150 175 0 50 AMBIENT TEMPERATURE (OC)









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