R1ABF~R1MBF

1.0Amp Surface Mount Fast Recovery Rectifiers

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals
- Glass passivated chip junction

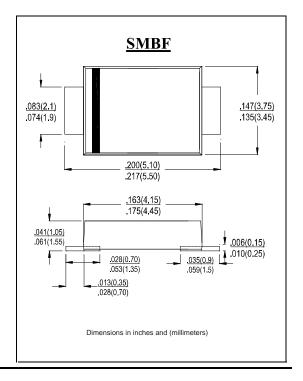
Mechanical Data

Case: JEDEC SMBF molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any



Maximum Ratings And Electrical Characteristics

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

	SYMBOLS	R1ABF	R1BBF	R1DBF	R1GBF	R1JBF	R1KBF	R1MBF	UNITS
Maximum repetitive 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 T∟=90°C	I(AV)				1.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм				30.0				Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.3							Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	lr	5.0 50.0						μΑ	
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	Cı		15.0						pF
Typical thermal resistance (NOTE 3)	RθJA	50.0						°C/W	
Operating junction and storage temperature range	TJ,TSTG	-65 to +150							°C

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas