DC COMPONENTS CO., LTD.

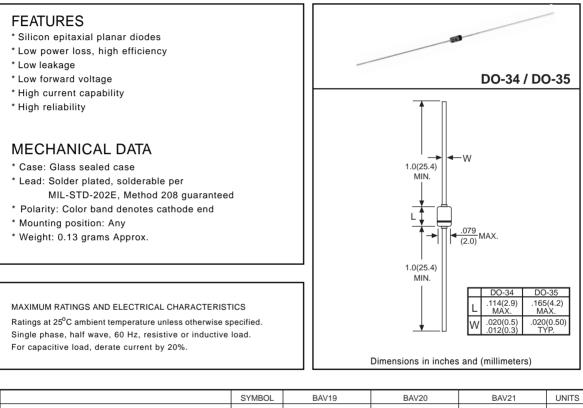
RECTIFIER SPECIALISTS

BAV19 THRU BAV21

TECHNICAL SPECIFICATIONS OF HIGH SPEED SWITCHING DIODES

VOLTAGE RANGE - 100 to 200 Volts

CURRENT - 0.2 Ampere



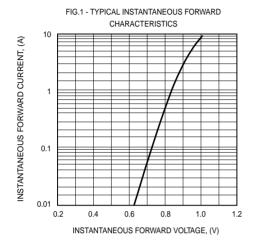
	SYMBOL	BAV19	BAV20	BAV21	UNITS
Maximum Reverse Voltage	VR	100	150	200	V
Maximum Recurrent Peak Reverse Voltage	VRRM	120	200	250	V
Maximum Average Rectified Current	lo	200			mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	1.0			А
Maximum Power Dissipation Tamb=25°C	Ptot	500			mW
Maximum Forward Voltage (@IF=100mA)	VF	1.0			V
Maximum Reverse Current (@VR=VR Max)	IR	0.1			μA
Maximum Reverse Recovery Time(Note 1)	trr	50			nS
Typical Junction Capacitance(Note 2)	CJ	1.5			pF
Typical Thermal Resistance	RθJA	357			°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to +125			°C

Note: 1. Test Conditions: IF=IR=10mA, RL=100Ω, VR=6V to IRR=1mA, RL=100Ω

2. Measured at 1MHz and VR=0

3. Suffix "M" stands for "DO-34" package.(e.g.: BAV19M)

RATING AND CHARACTERISTIC CURVES (BAV19 THRU BAV21)



10 TA= 150°C **REVERSE CURRENT**, (A) TA= 125°C 1 TA= 85°C 0.1 TA= 55⁰C 0.01 TA= 25°C 0.001 0 10 20 30 40 50 REVERSE VOLTAGE, (V)

FIG.3 - TYPICAL JUNCTION CAPACITANCE

FIG.4 - RECTIFICATION EFFICIENCY MEASUREMENT CIRCUIT

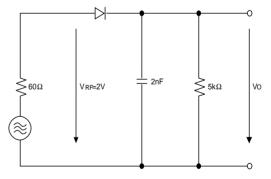


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

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