



BAV19 THRU BAV21

Switching Diodes

Voltage 100~250 Volts Power 500 mWatts

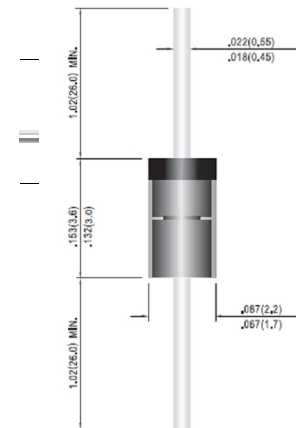
FEATURES

- Fast switching speed.
- Electrically identical to standard JEDEC
- High Conductance
- Axial lead package ideally suited
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded Glass DO-35
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See diagram below
- Approx. weight: 0.013 grams
- Mounting position: Any

DO-35



Unit:inch(mm)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C unless otherwise noted

PARAMETER	SYMBOL	BAV19	BAV20	BAV21	UNITS
Reverse Voltage	V_R	100	150	200	V
Peak Reverse Voltage	V_{RM}	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and $f \geq 50\text{Hz}$	$I_{F(AV)}$	200			mA
Peak Forward Surge Current, 1.0s	I_{FSM}	1.0			A
Power Dissipation Derate Above 25°C	P_{tot}	500			mW
Maximum Forward Voltage at 0.1A	V_F	1.0			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T = 25^\circ\text{C}$	I_R	0.1			μA
Typical Junction Capacitance(Notes1)	C_J	3.0			pF
Maximum Reverse Recovery (Notes2)	t_{rr}	50			ns
Typical Thermal Resistance	$R_{\theta JA}$	350			$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150			$^\circ\text{C}$

NOTE : 1. C_J at Reverse Voltage = 0. $f=1\text{MHz}$
 2. From $I_F=30\text{mA}$ to $I_R=-3\text{mA}$. $V_R=6\text{V}$. Load= 100Ω

Characteristic and Rating Curve

Fig.1 Admissible Peak Forward Current Versus Pulse

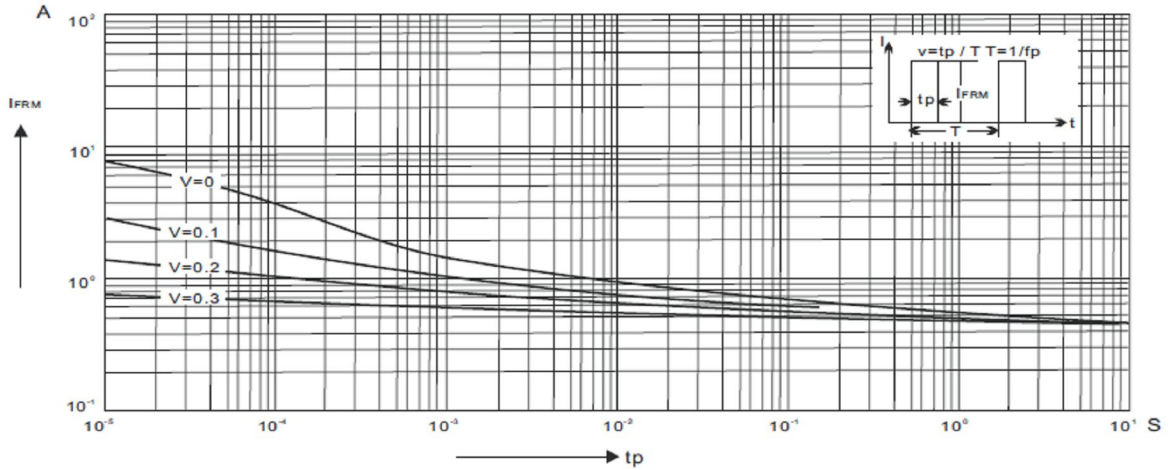


Fig.2 Dynamic Forward Resistance Versus Forward Current

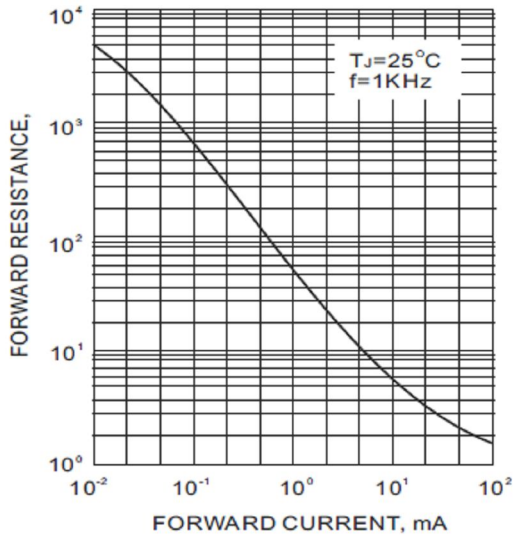


Fig.3 Forward Characteristic

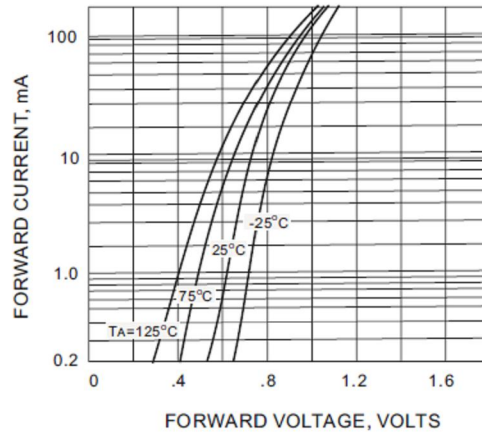


Fig.4 Derating Curve

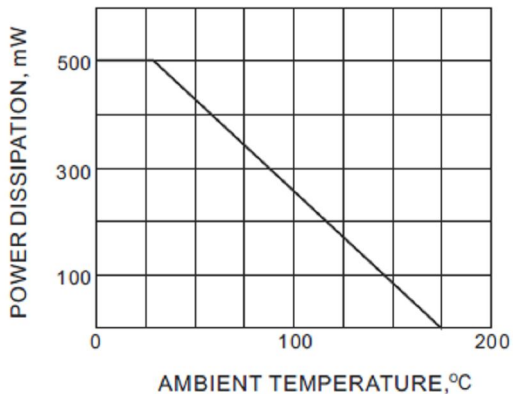


Fig.5 Typical Junction Capacitance

