

## BAV10

### FEATURES :

- High switching speed: max. 6 ns
- General application
- Continuous reverse voltage: max. 60 V
- Repetitive peak reverse voltage: max. 60 V
- Repetitive peak forward current: max. 600 mA
- \* Pb / RoHS Free

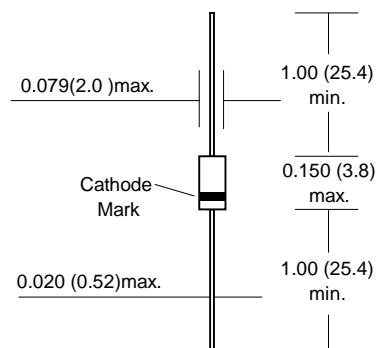
### MECHANICAL DATA :

**Case:** DO-35 Glass Case

**Weight:** approx. 0.11g

### HIGH SPEED SWITCHING DIODE

**DO - 35 Glass  
(DO-204AH)**



Dimensions in inches and ( millimeters )

### Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

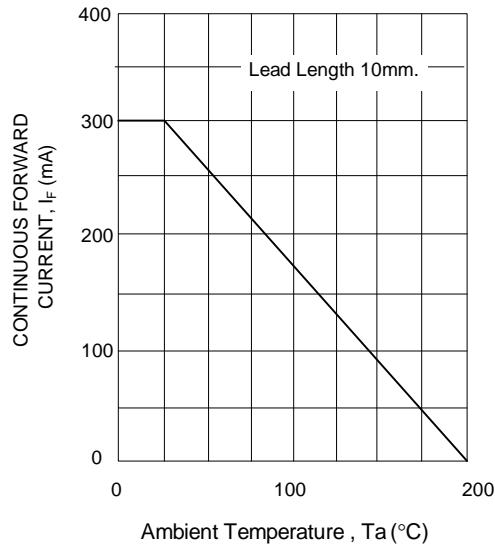
Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V
Maximum Continuous Reverse Voltage	$V_{RM}$	60	V
Maximum Continuous Forward Current	$I_F$	300	mA
Maximum Power Dissipation	$P_D$	350	mW
Maximum Repetitive Peak Forward Current	$I_{FRM}$	600	mA
Maximum Surge Forward Current at $t < 1s$ , $T_j = 25^\circ\text{C}$	$I_{FSM}$	1.0	A
Maximum Junction Temperature	$T_J$	200	°C
Storage Temperature Range	$T_S$	-65 to + 200	°C

### Electrical Characteristics ( $T_j = 25^\circ\text{C}$ unless otherwise noted)

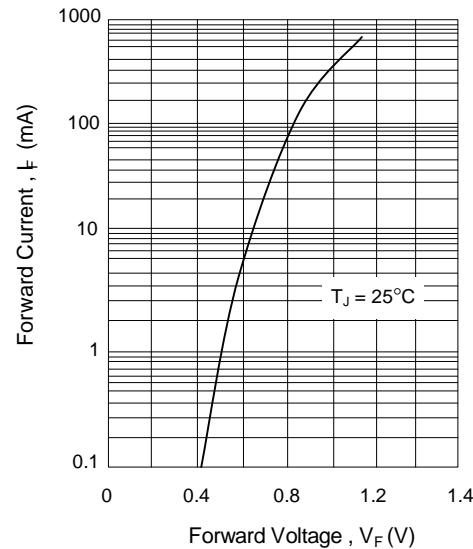
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	$I_R$	$V_R = 60 \text{ V}$ $V_R = 60 \text{ V}, T_j = 150^\circ\text{C}$	-	-	100	nA
			-	-	100	µA
Forward Voltage	$V_F$	$I_F = 200 \text{ mA}$	-	-	1.0	V
Diode Capacitance	$C_d$	$f = 1\text{MHz}; V_R = 0$	-	-	2.5	pF
Reverse Recovery Time	$T_{rr}$	$I_F = 400\text{mA} \text{ to } I_R = 400\text{mA}$ $R_L = 100 \Omega$ ; measured at $I_R = 40\text{mA}$	-	-	6	ns

## RATING AND CHARACTERISTIC CURVES ( BAV10 )

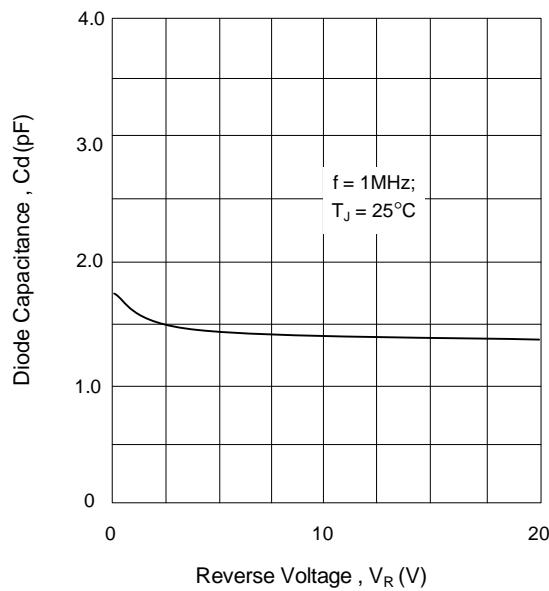
**FIG. 1 MAXIMUM PERMISSIBLE CONTINUOUS FORWARD CURRENT AS A FUNCTION OF AMBIENT TEMPERATURE.**



**FIG. 2 TYPICAL FORWARD VOLTAGE**



**FIG. 3 TYPICAL DIODE CAPACITANCE AS A FUNCTION OF REVERSE VOLTAGE**



**FIG. 4 TYPICAL REVERSE CURRENT VS JUNCTION TEMPERATURE**

