

## BAW75 ~ BAW76

### FEATURES :

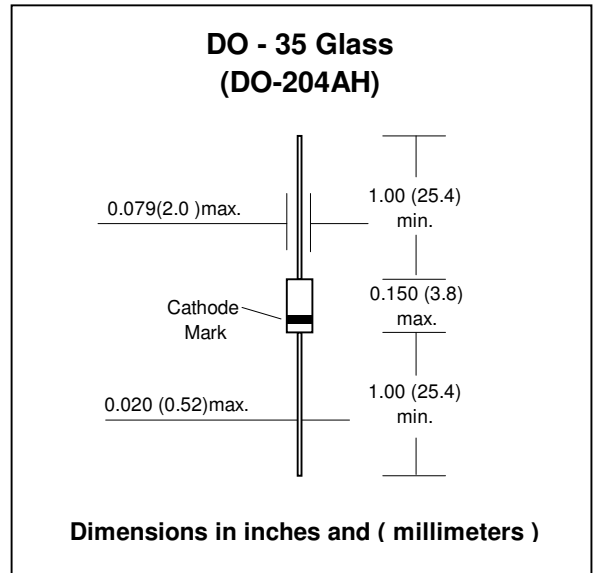
- High switching speed: max. 4 ns
- Reverse voltage: max. 25V , 50V
- Peak reverse voltage: max. 35V, 75 V
- Pb / RoHS Free

### MECHANICAL DATA :

**Case:** DO-35 Glass Case

**Weight:** approx. 0.13g

## HIGH SPEED SWITCHING DIODES



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

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	BAW75 BAW76	25 50	V
Maximum Reverse Voltage	BAW75 BAW76	35 75	V
Maximum Average Forward Current Half Wave Rectification with Resistive Load , f ≥ 50Hz	I <sub>F(AV)</sub>	150 <sup>(1)</sup>	mA
Maximum Power Dissipation	P <sub>D</sub>	500 <sup>(1)</sup>	mW
Maximum Surge Forward Current at t < 1μs , T <sub>J</sub> = 25 °C	I <sub>FSM</sub>	2	A
Maximum Junction Temperature	T <sub>J</sub>	200	°C
Storage Temperature Range	T <sub>S</sub>	-65 to + 200	°C

**Note :** (1) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.

### Electrical Characteristics (T<sub>J</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	BAW75 BAW76	I <sub>R</sub>	V <sub>R</sub> = 25 V V <sub>R</sub> = 50 V	- -	100 100	nA
Forward Voltage	BAW75 BAW76	V <sub>F</sub>	I <sub>F</sub> = 30 mA I <sub>F</sub> = 100 mA	- -	1.0 1.0	V
Reverse Breakdown Voltage	BAW75 BAW76	V <sub>(BR)R</sub>	Test with 5μA pulses	35 75	- -	V
Diode Capacitance	BAW75 BAW76	C <sub>d</sub>	f = 1MHz ; V <sub>R</sub> = 0	- -	4.0 2.0	pF
Reverse Recovery Time	T <sub>rr</sub>	I <sub>F</sub> = 10 mA , I <sub>R</sub> = 10 mA I <sub>rr</sub> = 1mA	-	-	4	ns

### RATING AND CHARACTERISTIC CURVES ( BAW75 ~ BAW76 )

FIG. 1 ADMISSIBLE POWER DISSIPATION  
VERSUS AMBIENT TEMPERATURE

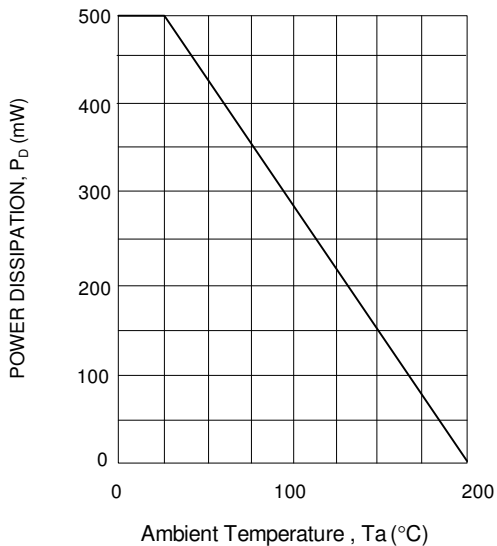


FIG. 2 TYPICAL FORWARD VOLTAGE

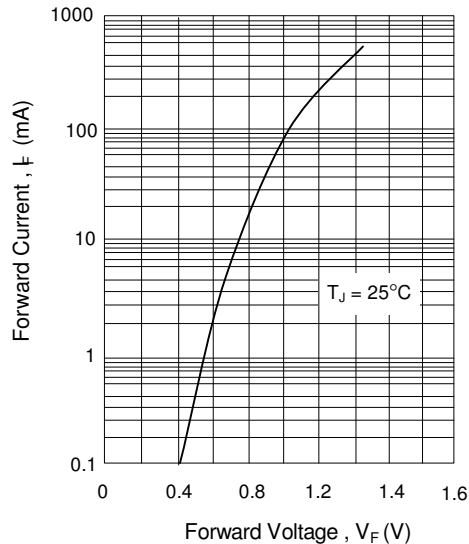


FIG. 3 TYPICAL DIODE CAPACITANCE AS  
A FUNCTION OF REVERSE VOLTAGE

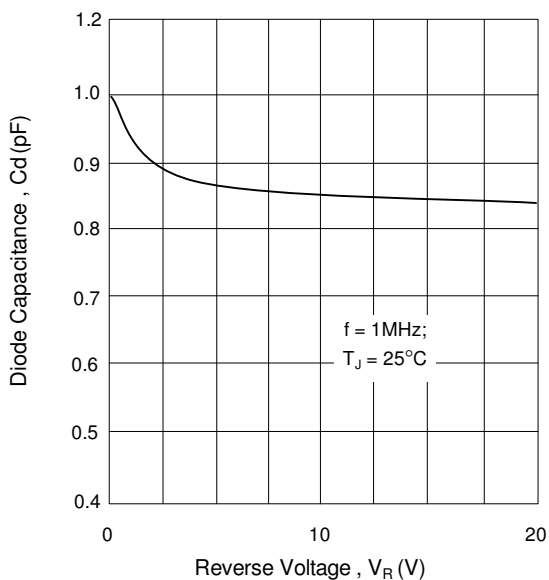


FIG. 4 TYPICAL REVERSE CURRENT  
VERSUS JUNCTION TEMPERATURE

