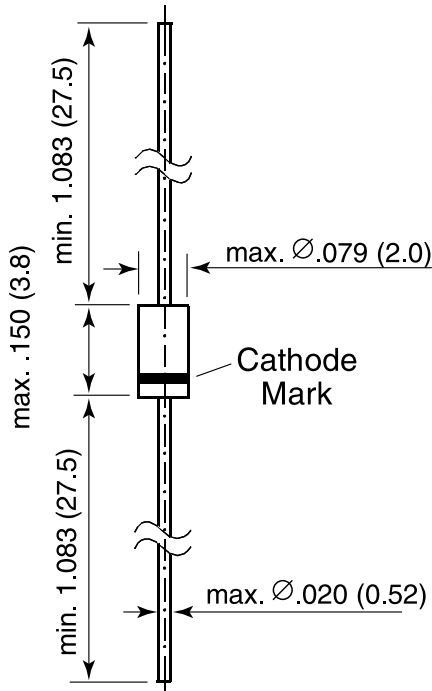


**DO-204AH (DO-35 Glass)**



*Dimensions in inches and (millimeters)*

*New Product*

### Features

- Silicon Epitaxial Planar Diodes
- Fast switching diodes.

### Mechanical Data

**Case:** DO-35 Glass Case

**Weight:** approx. 0.13g

**Packaging Codes/Options:**

D7/10K per 13" reel (52mm tape), 20K/box

D8/10K per Ammo tape (52mm tape), 20K/box

### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage BAW75 BAW76	V <sub>R</sub>	25 50	V
Peak Reverse Voltage BAW75 BAW76	V <sub>RM</sub>	35 75	V
Rectified Current (Average) Half Wave Rectification with Resistive Load at T <sub>A</sub> = 25°C and f ≥ 50 Hz	I <sub>O</sub>	150 <sup>(1)</sup>	mA
Surge Forward Current at t < 1μs, T <sub>j</sub> = 25°C	I <sub>FSM</sub>	2	A
Power Dissipation at T <sub>A</sub> = 25°C	P <sub>tot</sub>	500 <sup>(1)</sup>	mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	0.35 <sup>(1)</sup>	°C/W
Junction Temperature	T <sub>j</sub>	200	°C
Storage Temperature Range	T <sub>S</sub>	-65 to +200	°C

**Note:**

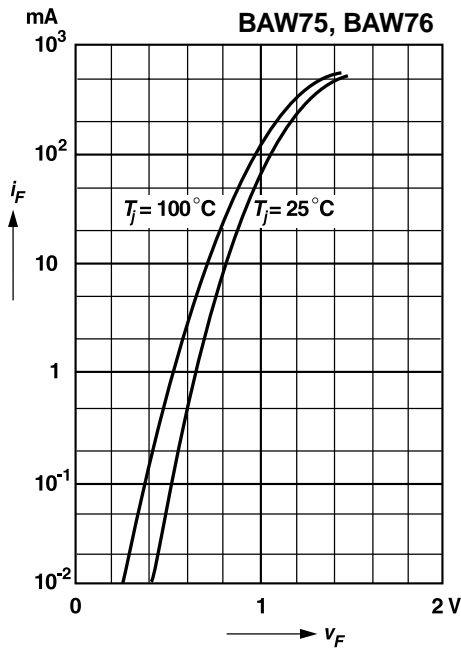
(1) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.

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

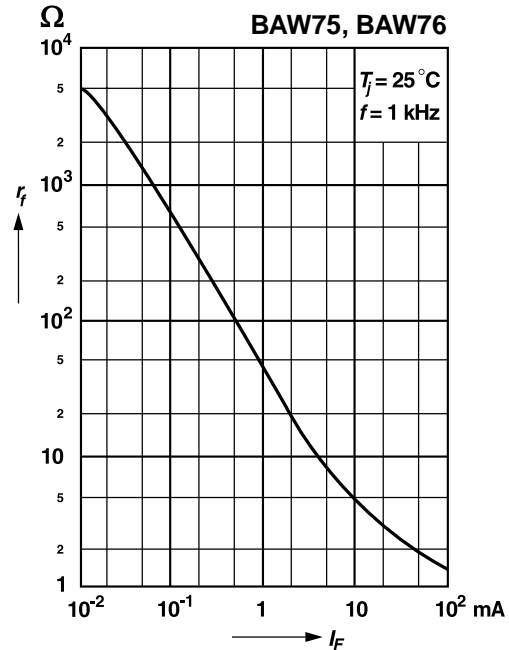
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Forward Voltage	BAW75 BAW76	V <sub>F</sub>	at I <sub>F</sub> = 30mA at I <sub>F</sub> = 100mA	— —	— —	1 1 V	
Leakage Current	BAW75	I <sub>R</sub>	V <sub>R</sub> = 25V	—	—	100	nA
	BAW75		V <sub>R</sub> = 25V, T <sub>j</sub> = 150°C	—	—	100	μA
	BAW76		V <sub>R</sub> = 50V	—	—	100	nA
	BAW76		V <sub>R</sub> = 50V, T <sub>j</sub> = 150°C	—	—	100	μA
Reverse Breakdown Voltage	BAW75 BAW76	V <sub>(BR)R</sub>	tested with 5μA pulses	35 75	— —	— — V	
Capacitance	BAW75 BAW76	C <sub>tot</sub>	V <sub>F</sub> = V <sub>R</sub> = 0V	— —	— —	4 2 pF	
Reverse Recovery Time		t <sub>rr</sub>	I <sub>F</sub> = 10mA, I <sub>R</sub> = 10mA I <sub>rr</sub> = 1mA	—	—	4	ns
			I <sub>F</sub> = 10mA, I <sub>R</sub> = 1mA V <sub>R</sub> = 6V, R <sub>L</sub> = 100Ω	—	—	2	

### Ratings and Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

**Forward characteristics**

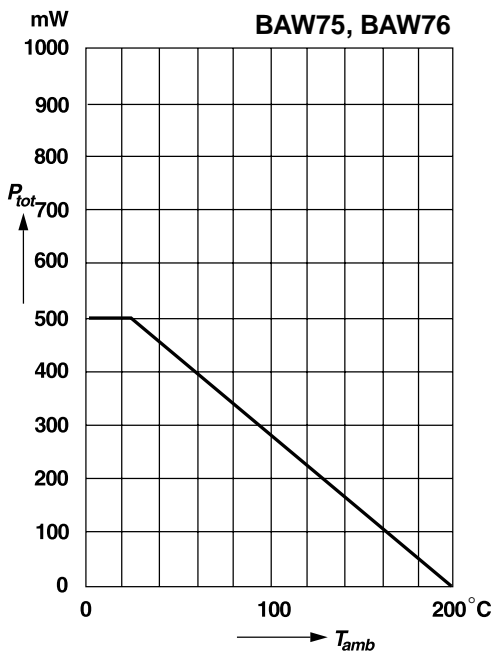


**Dynamic forward resistance versus forward current**

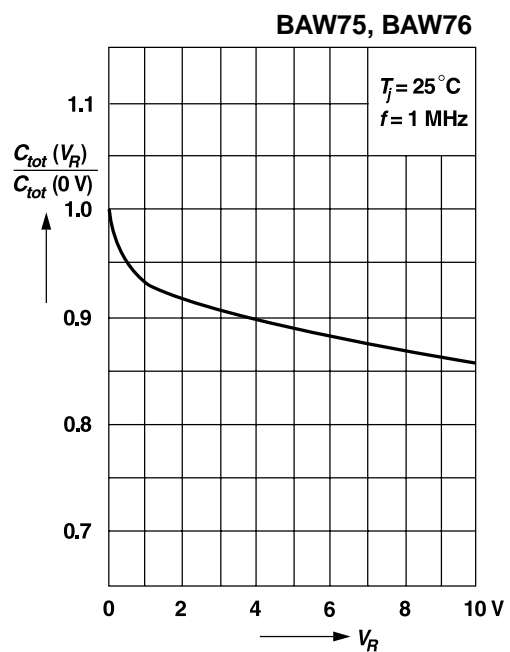


**Admissible power dissipation versus ambient temperature**

Valid provided that electrodes are kept at ambient temperature

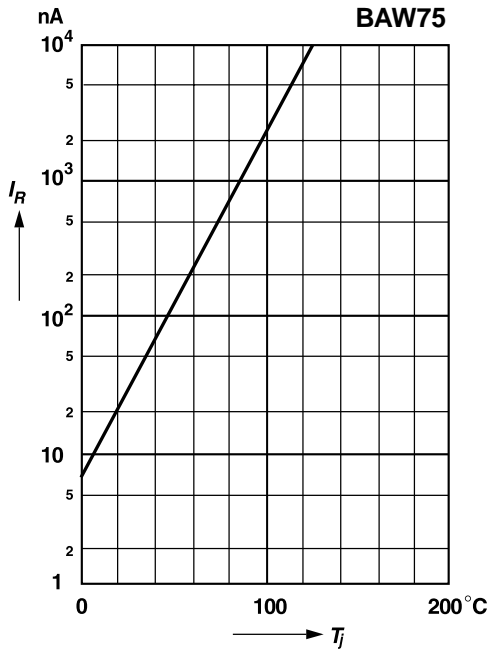


**Relative capacitance versus reverse voltage**

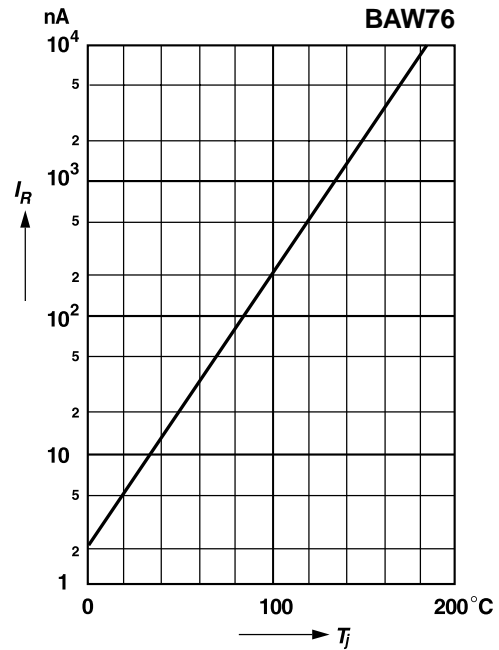


### Ratings and Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Leakage current versus junction temperature



Leakage current versus junction temperature



Admissible repetitive peak forward current versus pulse duration

For conditions, see footnote in table "Absolute Maximum Ratings"

