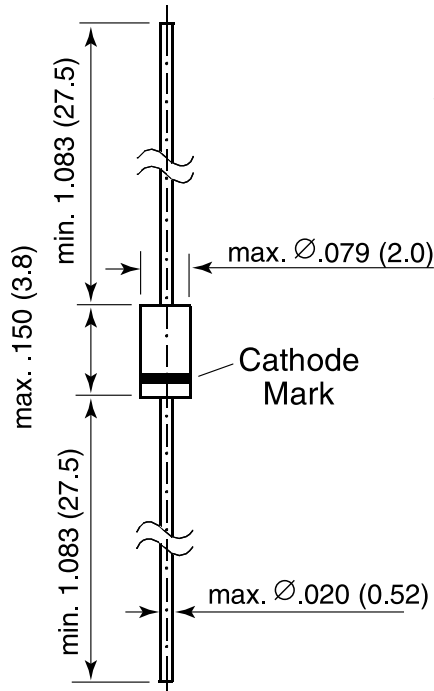


DO-204AH (DO-35 Glass)



Dimensions in inches and (millimeters)

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_A = 25°C unless otherwise noted)

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

Note:

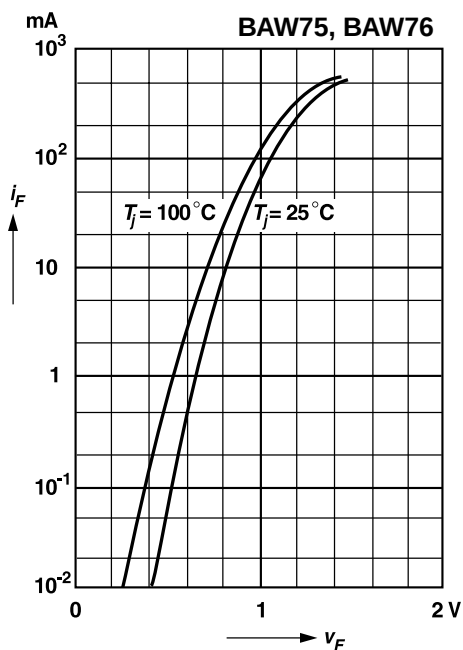
(1) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.

Electrical Characteristics (T_J = 25°C unless otherwise noted)

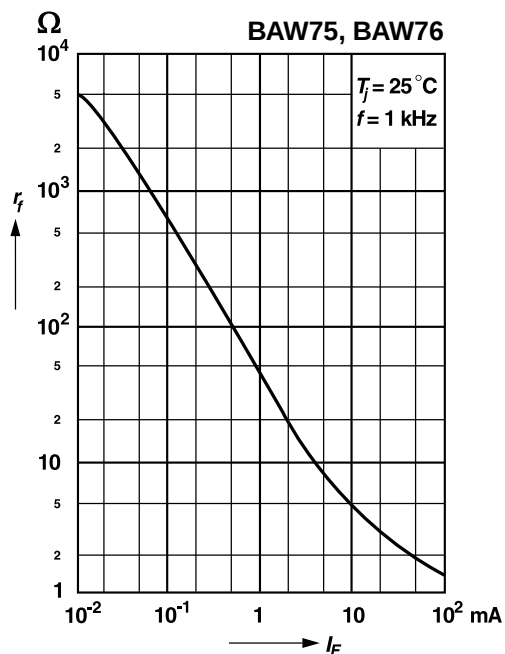
Parameter		Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	BAW75	V _F	at I _F = 30mA	—	—	1	V
	BAW76		at I _F = 100mA	—	—	1	
Leakage Current	BAW75	I _R	V _R = 25V	—	—	100	nA
	BAW75		V _R = 25V, T _j = 150°C	—	—	100	μA
	BAW76		V _R = 50V	—	—	100	nA
	BAW76		V _R = 50V, T _j = 150°C	—	—	100	μA
Reverse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

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

Forward characteristics

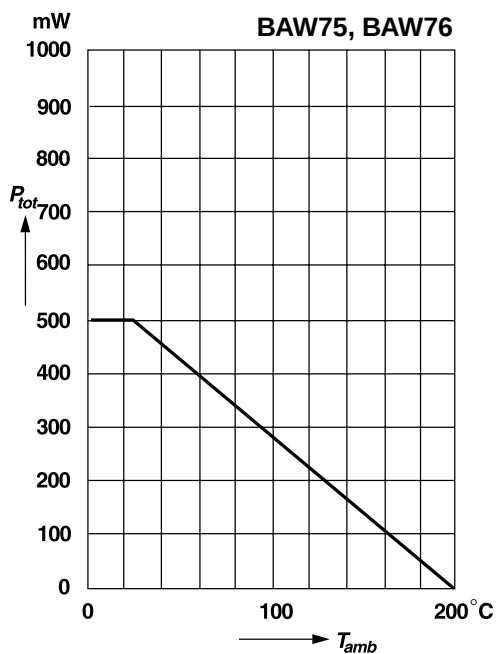


Dynamic forward resistance versus forward current

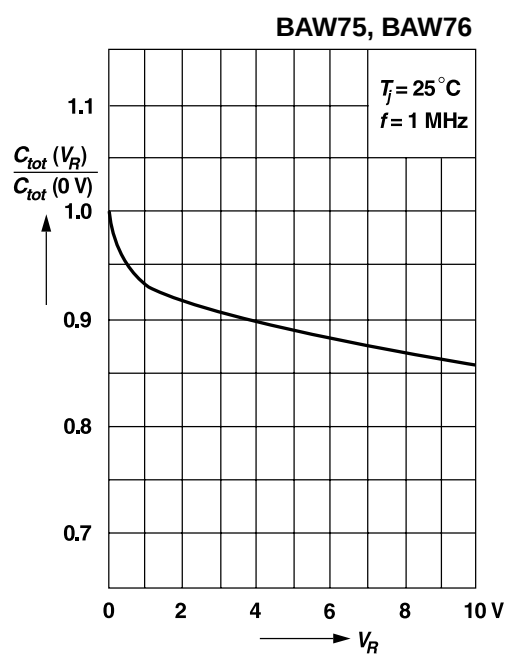


Admissible power dissipation versus ambient temperature

Valid provided that electrodes are kept at ambient temperature

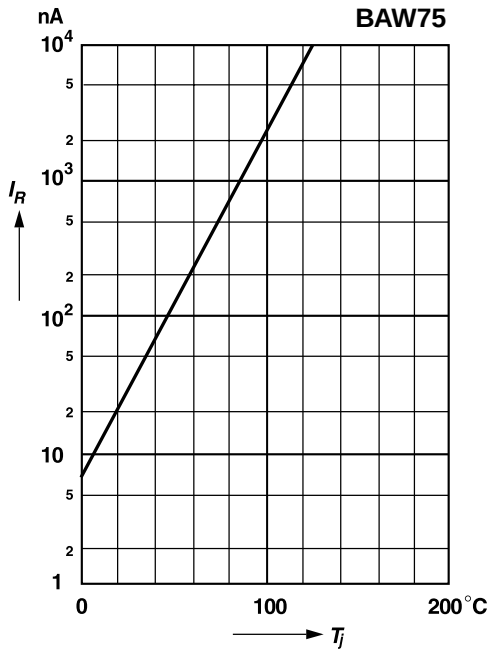


Relative capacitance versus reverse voltage

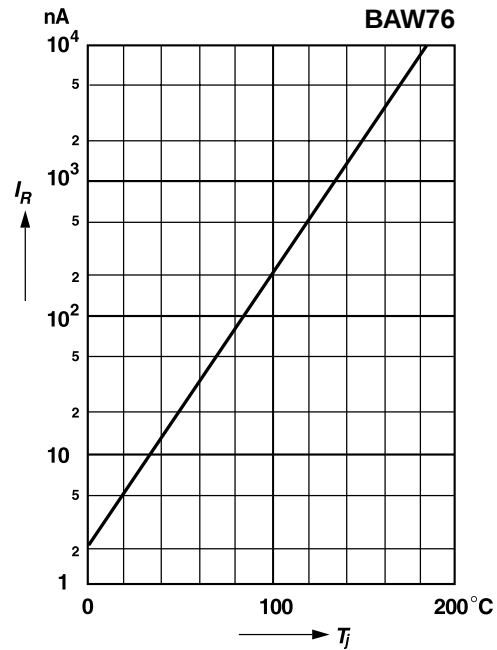


Ratings and Characteristics (T_A = 25°C unless otherwise noted)

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"

