

# BAW76\_T50R Datasheet



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DiGi Electronics Part Number	BAW76_T50R-DG
Manufacturer	<a href="#">onsemi</a>
Manufacturer Product Number	BAW76_T50R
Description	DIODE GEN PURP 75V 300MA DO35
Detailed Description	Diode 75 V 300mA Through Hole DO-35

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## Purchase and inquiry

Manufacturer Product Number:

BAW76\_T50R

Series:

-

Technology:

Standard

Current - Average Rectified (Io):

300mA

Speed:

Fast Recovery =< 500ns, > 200mA (Io)

Current - Reverse Leakage @ Vr:

100 nA @ 50 V

Mounting Type:

Through Hole

Supplier Device Package:

DO-35

Base Product Number:

BAW76

Manufacturer:

onsemi

Product Status:

Obsolete

Voltage - DC Reverse (Vr) (Max):

75 V

Voltage - Forward (Vf) (Max) @ If:

1 V @ 100 mA

Reverse Recovery Time (trr):

4 ns

Capacitance @ Vr, F:

2pF @ 0V, 1MHz

Package / Case:

DO-204AH, DO-35, Axial

Operating Temperature - Junction:

175°C (Max)

## Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

REACH Status:

REACH Unaffected

HTSUS:

8541.10.0070



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December 2004

# BAW76

## Small Signal Diode



**DO-35**  
Color Band Denotes Cathode

### Absolute Maximum Ratings \* $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Unit
$V_{RRM}$	Maximum Repetitive Reverse Voltage	75	V
$I_{F(AV)}$	Average Rectified Forward Current	300	mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0	A
		4.0	A
$T_{STG}$	Storage Temperature Range	-65 to +200	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	175	$^\circ\text{C}$

\* These ratings are limiting values above which the serviceability of the diode may be impaired.

#### NOTES:

- 1) These ratings are based on a maximum junction temperature of 200 degrees C.
- 2) These are steady limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

### Thermal Characteristics

Symbol	Parameter	Value	Unit
$P_D$	Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	$^\circ\text{C}/\text{W}$

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

Symbol	Parameter	Conditions	Min.	Max	Units
$V_R$	Breakdown Voltage	$I_R = 5\mu\text{A}$	75		V
$V_F$	Forward Voltage	$I_F = 100\text{mA}$		1.0	V
$I_R$	Reverse Leakage	$V_R = 50\text{V}$		100	nA
		$V_R = 50\text{V}, T_A = 150^\circ\text{C}$		100	$\mu\text{A}$
$C_T$	Total Capacitance	$V_R = 0, f = 1.0\text{MHz}$		2	pF
$t_{rr}$	Reverse Recovery Time	$I_F = 10\text{mA}, V_R = 6.0\text{V}$ $R_L = 100\Omega, I_{rr} = 1\text{mA}$		2	ns
		$I_F = I_R = 10\text{mA}, I_{rr} = 1.0\text{mA},$ $R_L = 100\Omega$		4	ns

**BAW76 Small Signal Diode**

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