

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

<u>Vishay Semiconductor/Diodes Division</u> BAW27-TAP

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of Vishay Semiconductor/Diodes Division: Excellent Integrated System Limite Datasheet of BAW27-TAP - DIODE GEN PURP 60V 600MA DO35

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



BAW27

Vishay Semiconductors

Small Signal Switching Diode



FEATURES

- · Silicon epitaxial planar diode
- · Low forward voltage drop
- · High forward current capability
- AEC-Q101 qualified
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



HALOGEN FREE

MECHANICAL DATA

Case: DO-35

Weight: approx. 125 mg Cathode band color: black Packaging codes/options:

TR/10K per 13" reel (52 mm tape), 50K/box TAP/10K per ammopack (52 mm tape), 50K/box

APPLICATIONS

• High speed switch and general purpose use in computer and industrial applications

PARTS TABLE					
PART	ORDERING CODE	TYPE MARKING	INTERNAL CONSTRUCTION	REMARKS	
BAW27	BAW27-TR or BAW27-TAP	BAW27	Single diode	Tape and reel/ammopack	

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Repetitive peak reverse voltage		V_{RRM}	75	V	
Reverse voltage		V_R	60	V	
Peak forward surge current	t _p = 1 μs	I _{FSM}	I _{FSM} 4		
Forward continuous current		I _F	600	mA	
Average forward current	$V_R = 0$	I _{F(AV)}	300	mA	
Power dissipation	I = 4 mm, T _L = 45 °C	P _{tot}	440	mW	
Power dissipation	$I = 4$ mm, $T_L \le 25$ °C	P _{tot}	500	mW	

THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Thermal resistance junction to ambient air	I = 4 mm, T _L = constant	R _{thJA}	350	K/W	
Junction temperature		T _j	175	°C	
Storage temperature range		T _{stq}	- 65 to + 175	°C	

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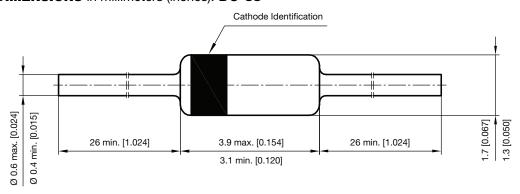
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ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
	I _F = 10 mA	V _F		0.670	0.750	V
Forward voltage	I _F = 50 mA	V _F		800	850	mV
Forward voltage	I _F = 200 mA	V _F		950	1000	mV
	I _F = 400 mA	V _F		1120	1250	mV
Reverse current	V _R = 60 V	I _R			100	nA
neverse current	$V_R = 60 \text{ V}, T_j = 100 ^{\circ}\text{C}$	I _R			50	μΑ
Breakdown voltage	$I_R = 5 \mu A, t_p/T = 0.01,$ $t_p = 0.3 \text{ ms}$	V _(BR)	75			V
Diode capacitance	$V_R = 0 \text{ V, f} = 1 \text{ MHz,}$ $V_{HF} = 50 \text{ mV}$	C _D			4	pF
Reverse recovery time	$I_F = I_R = 10 \text{ mA},$ $I_R = 0.1 \text{ x } I_R$	t _{rr}			6	ns

PACKAGE DIMENSIONS in millimeters (inches): DO-35



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