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Small Signal Switching Diodes



DESIGN SUPPORT TOOLS click logo to get started



MECHANICAL DATA

Case: DO-35 (DO-204AH) 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

PARTS TABLE							
PART	TYPE DIFFERENTIATION	ORDERING CODE	TYPE MARKING	CIRCUIT CONFIGURATION	REMARKS		
BAS33	$V_{RRM} = 40 V$	BAS33-TAP or BAS33-TR	BAS33	Single	Tape and reel / ammopack		
BAS34	V _{RRM} = 70 V	BAS34-TAP or BAS34-TR	BAS34	Single	Tape and reel / ammopack		

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	PART	SYMBOL	VALUE	UNIT	
Repetitive peak reverse voltage		BAS33	V _{RRM}	40	V	
Repetitive peak reverse voltage		BAS34	V _{RRM}	70	V	
Povoroo voltogo		BAS33	V _R	30	V	
Reverse voltage		BAS34	V _R	60	V	
Peak forward surge current	t _p = 1 μs		I _{FSM}	2	А	
Forward continuous current			I _F	200	mA	

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

FEATURES

- Silicon planar diodes
- · Very low reverse current
- AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

· Protection circuits, time delay circuits, peak follower circuits, logarithmic amplifiers

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ELECTRICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	I _F = 100 mA		V _F			1	V
	$E \le 300 \text{ Ix}, \text{ V}_{\text{R}}$		I _R		1	3	nA
Reverse current	$E \leq 300 \text{ Ix}, \text{ V}_{\text{R}}, \text{ T}_{j} = 125 \ ^{\circ}\text{C}$		I _R			0.5	μA
neverse current	$E \le 300 \text{ Ix}, \text{ V}_{\text{R}} = 15 \text{ V}$	BAS33	I _R		0.5	1	nA
	$E \leq 300 \text{ Ix}, \text{ V}_{\text{R}} = 30 \text{ V}$	BAS34	I _R		0.5	1	nA
Breakdown voltage	$I_R = 5 \ \mu A, \ t_p/T = 0.01, \ t_p = 0.3 \ ms$	BAS33	V _(BR)	40			V
Breakdown voltage		BAS34	V _(BR)	70			V
Diode capacitance	$V_R = 0 V$, f = 1 MHz,		CD			3	pF

TYPICAL CHARACTERISTICS (Tamb = 25 °C, unless otherwise specified)

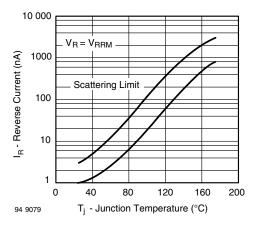


Fig. 1 - Reverse Current vs. Junction Temperature

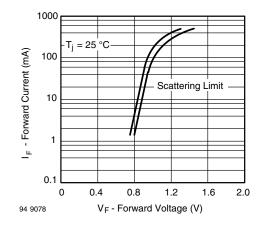
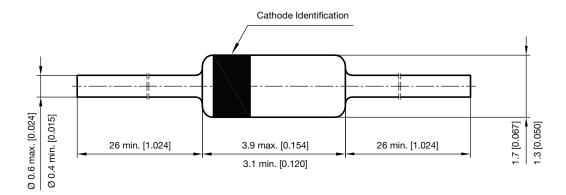


Fig. 2 - Forward Current vs. Forward Voltage

PACKAGE DIMENSIONS in millimeters (inches): DO-35 (DO-204AH)



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