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Vishay Semiconductors

Small Signal Schottky Diode



DESIGN SUPPORT TOOLS click logo to get started



FEATURES

- Integrated protection against static ring discharge
- · Very low forward voltage
- AEC-Q101 gualified
- RoHS Material categorization: COMPLIANT for definitions of compliance please see HALOGEN FREE www.vishay.com/doc?99912

APPLICATIONS

Applications where a very low forward voltage is required

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	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS		
BAT86S	BAT86S-TR or BAT86S-TAP	Single	BAT86S	Tape and reel/ammopack		

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Reverse voltage		V _R	50	V	
Peak forward surge current	t _p ≤ 10 ms	I _{FSM}	5	A	
Repetitive peak forward current	$t_p \le 1 s$	I _{FRM}	500	mA	
Forward continuous current		I _F	200	mA	
Average forward current	PCB mounting, I = 4 mm; V _{RWM} = 25 V, T _{amb} = 50 °C	I _{FAV}	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}	320	K/W	
Junction temperature		Tj	125	°C	
Storage temperature range		T _{stg}	-65 to +150	°C	

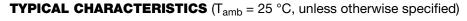
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
	I _F = 0.1 mA	V _F			300	mV
	I _F = 1 mA	V _F			380	mV
Forward voltage	I _F = 10 mA	V _F			450	mV
	I _F = 30 mA	V _F			600	mV
	l _F = 100 mA	V _F			900	mV
Reserve current	V _R = 40 V	I _R			5	μA
Diode capacitance	V _R = 1 V, f = 1 MHz	CD			8	pF

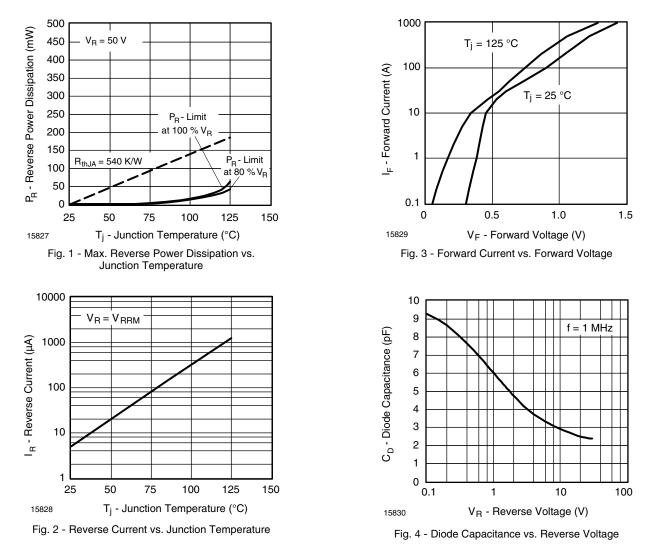
Rev. 2.0, 01-Jun-17

Document Number: 85514

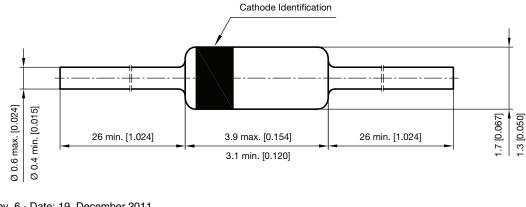


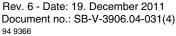
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PACKAGE DIMENSIONS in millimeters (inches): DO-35 (DO-204AH)





Rev. 2.0, 01-Jun-17



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