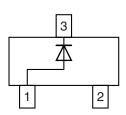
MMBD914

Vishay Semiconductors



Small Signal Switching Diode





MECHANICAL DATA

Case: SOT-23

Weight: approx. 8.8 mg

Packaging codes/options:

18/10K per 13" reel (8 mm tape), 10K/box 08/3K per 7" reel (8 mm tape), 15K/box

FEATURES

- Silicon epitaxial planar diode
- Fast switching diode in case SOT-23, especially suited for automatic insertion.
- AEC-Q101 qualified
- Base P/N-E3 RoHS-compliant, commercial RoHS compliant
- Base P/N-HE3 RoHS-compliant, AEC-Q101 qualified
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

PARTS TABLE					
PART	ORDERING CODE	INTERNAL CONSTRUCTION	TYPE MARKING	REMARKS	
MMBD914	MMBD914-E3-08 or MMBD914-E3-18	Single diede	5D	Tape and reel	
	MMBD914-HE3-08 or MMBD914-HE3-18	Single diode			

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Peak reverse voltage		V _{RM}	100	V	
Maximum average forward rectified current		I _{F(AV)}	200	mA	
Maximum power dissipation	T _{amb} = 25 °C	P _{tot}	225	mW	

THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Maximum junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	- 55 to + 150	°C	
Operating temperature range		T _{op}	- 55 to + 150	°C	

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	I _F = 10 mA	VF			1	V
Deveree everent	V _R = 20 V	I _R			25	nA
Reverse current	V _R = 75 V	I _R			5	μA
Reverse recovery time	$\label{eq:IF} \begin{array}{l} I_{\text{F}} = 10 \text{ mA to } i_{\text{R}} = 1 \text{ mA}, \\ V_{\text{R}} = 6 \text{ V}, \text{ R}_{\text{L}} = 100 \ \Omega \end{array}$	t _{rr}			4	ns
Diode capacitance	V _R = 0 V, f = 1 MHz	CD			4	pF

Rev. 1.5, 15-May-13

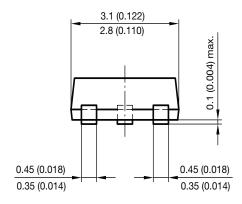
Document Number: 85734

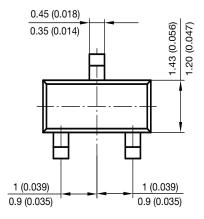
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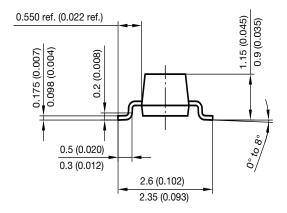
Vishay Semiconductors

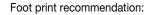
PACKAGE DIMENSIONS in millimeters (inches): SOT-23

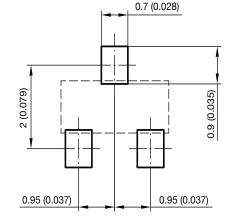














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