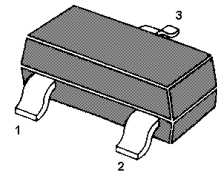
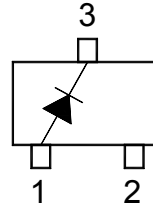


MMBD914-AH

Silicon Epitaxial Planar Switching Diode

Features

- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance
- AEC-Q101 is Available
- Halogen and Antimony Free(HAF), RoHS compliant



Marking Code: 5D
TO-236 Plastic Package

Applications

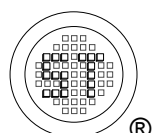
- Ultra high speed switching application

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	100	V
Forward Current	I_F	200	mA
Non-repetitive Peak Forward Surge Current ($t = 1 \mu\text{s}$)	I_{FSM}	4	A
Power Dissipation	P_D	350	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 10 \text{ mA}$	V_F	-	1	V
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	100	-	V
Reverse Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$	I_R	- -	25 5	nA μA
Reverse Recovery Time at $I_F = 10 \text{ mA}$, $V_R = 6 \text{ V}$, $R_L = 100 \Omega$, $I_{rr} = 0.1 \times I_R$	t_{rr}	-	4	ns
Total Capacitance at $V_R = 0$, $f = 1 \text{ MHz}$	C_T	-	4	pF



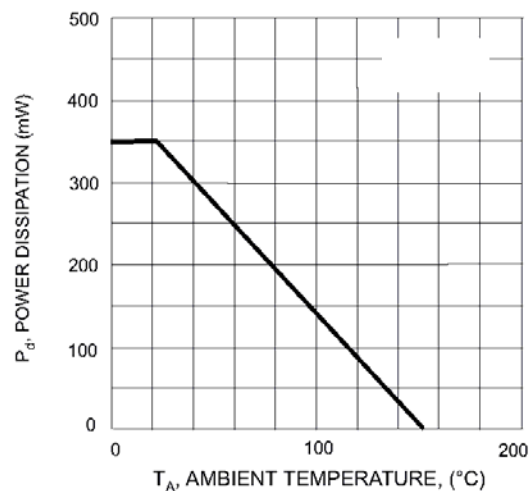


Fig. 1 Power Derating Curve

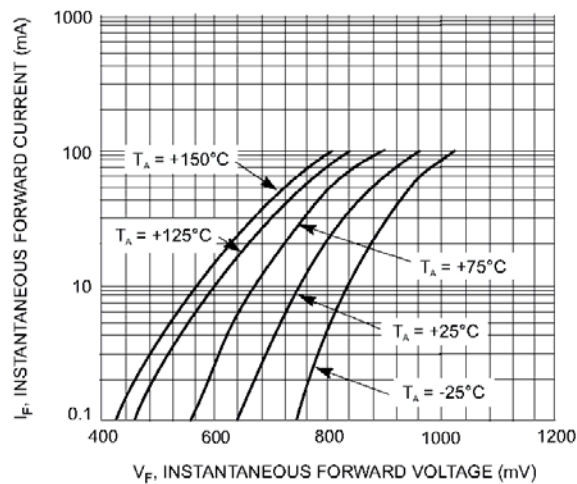


Fig. 2, Typical Forward Characteristics

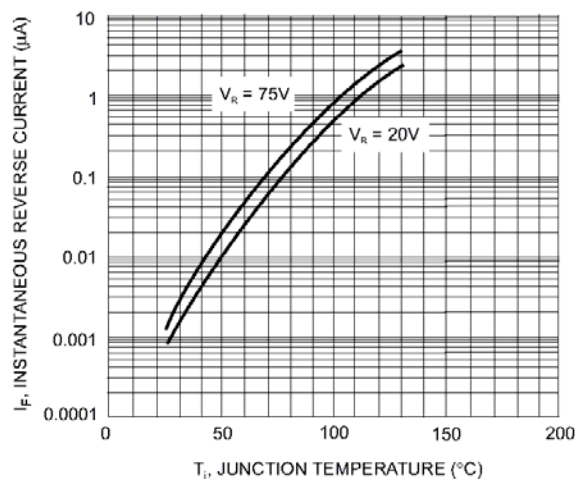
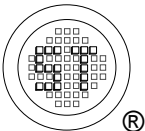


Fig. 3, Typical Reverse Characteristics

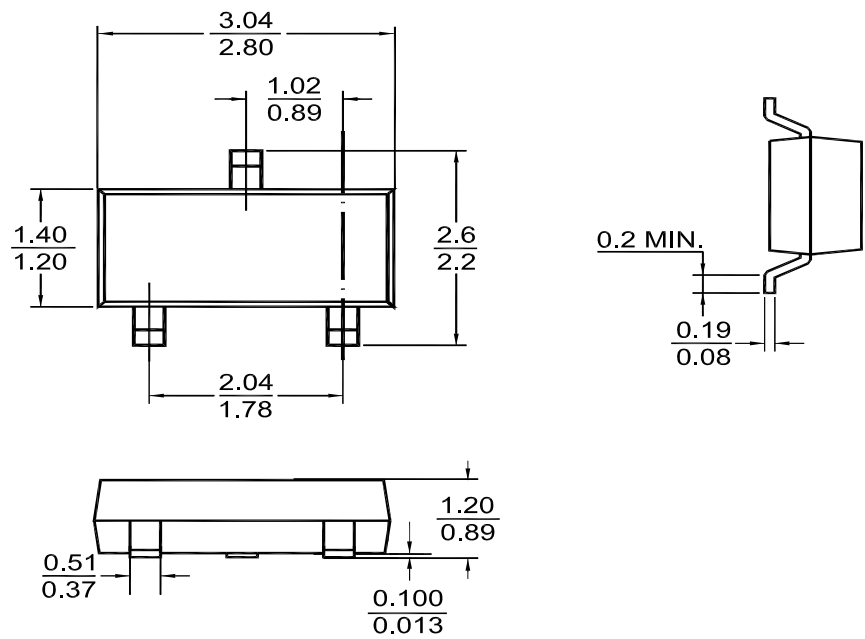


MMBD914-AH

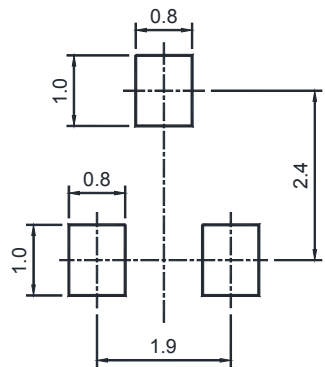
PACKAGE OUTLINE

Plastic surface mounted package (Dimensions in mm)

TO-236



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
TO-236	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" • " = HAF (Halogen and Antimony Free)
" 5D " = Part No.
" YM " = Date Code Marking
" Y " = Year
" M " = Month
Font type: Arial

