MMBD352W0TAG

Dual Schottky Barrier Diode

These devices are designed primarily for UHF mixer applications but are suitable also for use in detector and ultra-fast switching circuits.

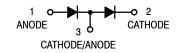
Features

- Very Low Capacitance Less Than 1.0 pF @ 0 V
- Low Forward Voltage 0.5 V (Typ) @ $I_F = 10 \text{ mA}$
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant



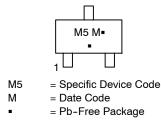
ON Semiconductor®

http://onsemi.com





MARKING DIAGRAM



(Note: Microdot may be in either location)

ORDERING INFORMATION

Device	Package	Shipping [†]
MMBD352WT1G	SOT-323 (Pb-Free)	3000/Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Continuous Reverse Voltage	V _R	7.0	V _{CC}

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Total Device Dissipation FR- 5 Board (Note 1) $T_A = 25^{\circ}C$	P _D	200	mW
Derate above 25°C		1.6	mW/°C
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	625	°C/W
Total Device Dissipation Alumina Substrate (Note 2) T _A = 25°C	P _D	300	mW
Derate above 25°C		2.4	mW/°C
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	417	°C/W
Junction and Storage Temperature	T _J , T _{stg}	- 55 to +150	°C

1. FR-5 = 1.0 \times 0.75 \times 0.062 in.

2. Alumina = 0.4 \times 0.3 \times 0.024 in. 99.5% alumina.

MMBD352WT1G

查诺PTRIABOGHARACTERISEIGS商A = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit	
OFF CHARACTERISTICS					
Forward Voltage (I _F = 10 mAdc)	V _F	-	0.60	V	
Reverse Voltage Leakage Current $(V_R = 3.0 V)$ $(V_R = 7.0 V)$	I _R	-	0.25 10	μΑ	
Capacitance (V _R = 0 V, f = 1.0 MHz)	С	-	1.0	pF	

TYPICAL CHARACTERISTICS

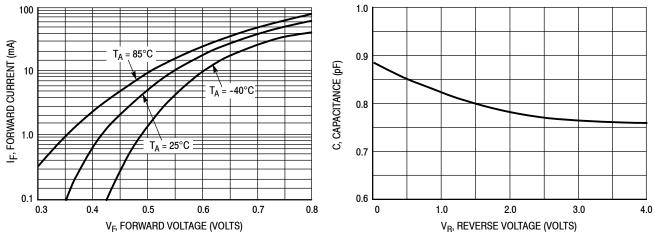


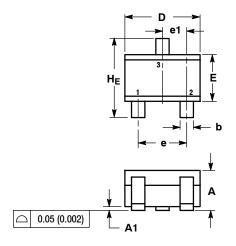
Figure 1. Forward Voltage

Figure 2. Capacitance

PACKAGE DIMENSIONS

查询"MMBD352WT1-D"供应商

SC-70 (SOT-323) CASE 419-04 ISSUE N

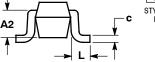


1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.

MILLIMETERS
INCHE

NOTES:

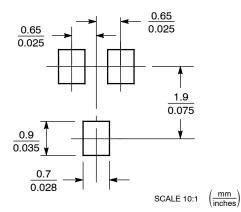
	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.80	0.90	1.00	0.032	0.035	0.040
A1	0.00	0.05	0.10	0.000	0.002	0.004
A2	0.70 REF			0.028 REF		
b	0.30	0.35	0.40	0.012	0.014	0.016
С	0.10	0.18	0.25	0.004	0.007	0.010
D	1.80	2.10	2.20	0.071	0.083	0.087
E	1.15	1.24	1.35	0.045	0.049	0.053
е	1.20	1.30	1.40	0.047	0.051	0.055
e1	0.65 BSC			0.026 BSC		
L	0.20	0.38	0.56	0.008	0.015	0.022
HE	2.00	2.10	2.40	0.079	0.083	0.095



STYLE 9: PIN 1. ANODE

2. CATHODE 3. CATHODE-ANODE

SOLDERING FOOTPRINT*



*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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