onsemi

Schottky Barrier Diode

Dual Series Schottky Barrier Diode for Mixer and Detector 5 V, 30 mA, 0.69 pF CP

1**SS**351

Features

- Series Connection of 2 Elements in a Small–Sized Package Facilitates High–Density Mounting and Permits 1SS351–Applied Equipment to be Made Smaller
- Small Interterminal Capacitance (C = 0.69 pF typ)
- Small Forward Voltage ($V_F = 0.23 \text{ V max}$)
- This is a Pb–Free Device

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Symbol	Parameter	Conditions	Ratings	Unit
V _{RM}	Peak Reverse Voltage		5	V
١ _F	Forward Current		30	mA
Tj	Junction Temperature		125	°C
Tstg	Storage Temperature		–55 to +125	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

			Ratings			
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _F	Forward Voltage	I _F = 1 mA	-	-	0.23	V
١ _F	Forward Current	V _F = 0.5 V	30	-	-	mA
I _R	Reverse Current	V _R = 0.5 V	-	-	25	μΑ
С	Interterminal Capacitance	V _R = 0.2 V, f = 1 MHz	-	0.69	0.9	pF

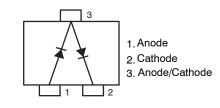
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

1. The specifications shown above are for each individuals diode.

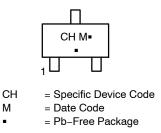


CASE 318BJ

ELECTRICAL CONNECTION



MARKING DIAGRAM



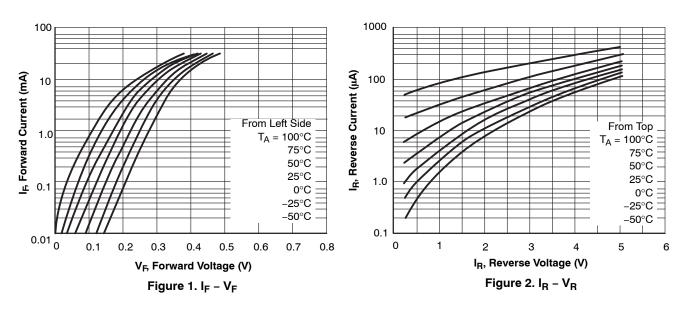
(Note: Microdot may be in either location)

ORDERING INFORMATION

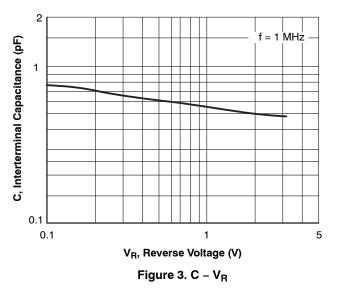
Device	Package	Shipping [†]
1SS351-TB-E	SC-59-3 (Pb-Free)	3 000 / Tape & Reel

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

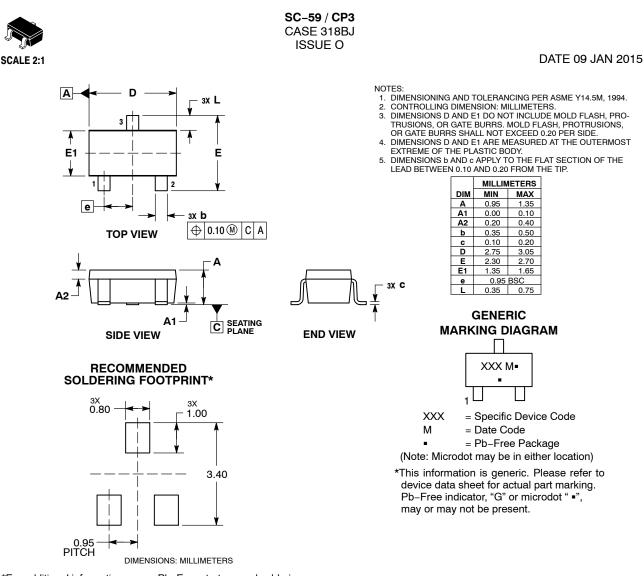
1SS351



TYPICAL CHARACTERISTICS







*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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SC-59 / CP3

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