

SOD-323 Plastic-Encapsulate Diodes

RB551V-40 Schottky Barrier Diode

FEATURES

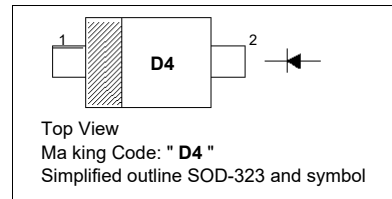
- ⌘ Small Surface Mounting Type
- ⌘ Low V_F
- ⌘ High Reliability

APPLICATIONS

- ⌘ High-Frequency Rectification Switching Regulators

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$ unless otherwise noted)

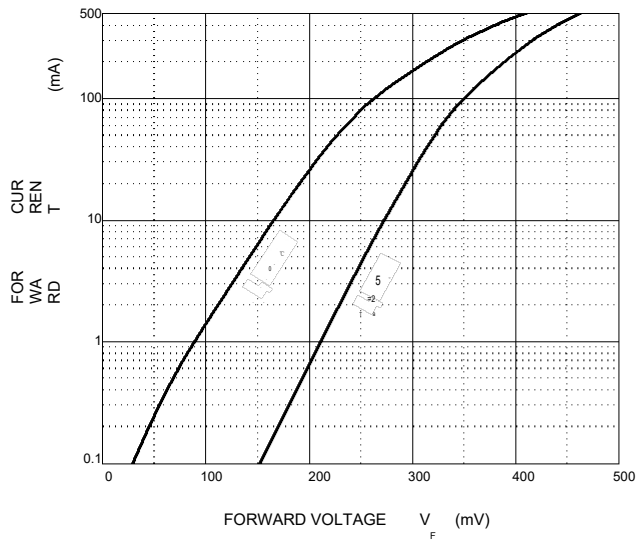
Symbol	Param t r	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	V
I_o	Continuous Forward Current	500	mA
I_{FSM}	Non-repetitive Forward Peak Surge Current @ $t=8.3\text{ms}$	2	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	500	$^\circ\text{C/W}$
T_j	Junction Temperature	125	$^\circ\text{C}$
T_{stg}	Storage Temperature	$\sim$ -55 +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$ unless otherwise specified)

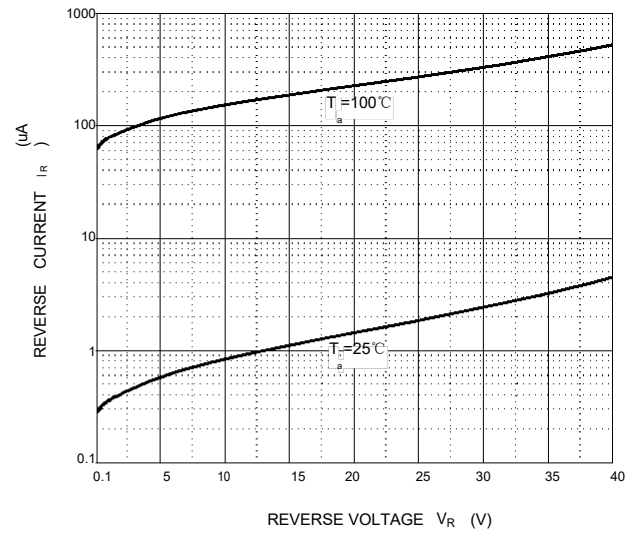
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=0.1\text{mA}$	40			V
Reverse current	I_R	$V_R=40\text{V}$			0.1	mA
Forward voltage	V_F	$I_F=500\text{mA}$			0.47	V

Typical Characteristics

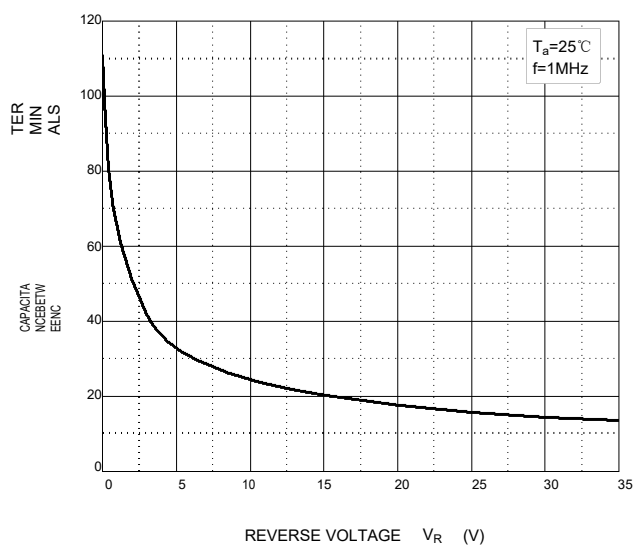
Forward Characteristics



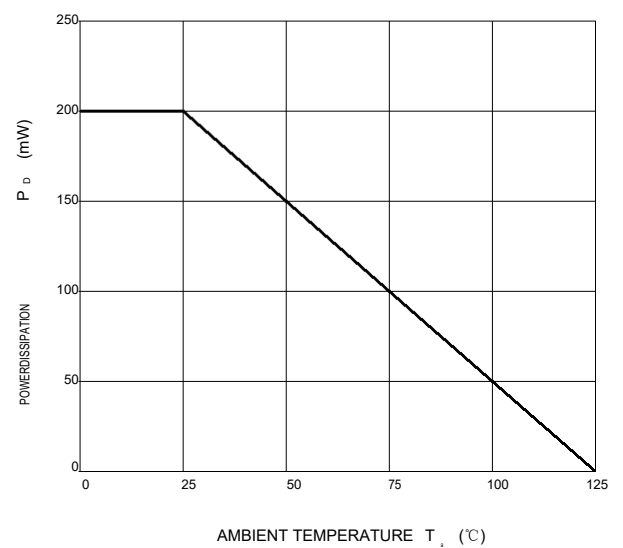
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323

