



SOD-323 Plastic-Encapsulate Diodes

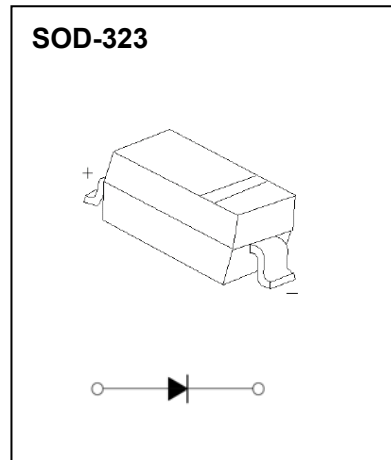
RB551V-40 Schottky Barrier Diode

FEATURES

- Small Surface Mounting Type
- Low V_F
- High Reliability

APPLICATIONS

- High-Frequency Rectification Switching Regulators



MARKING: D4

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

Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	V
I_O	Continuous Forward Current	500	mA
I_{FSM}	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	$^\circ\text{C}/\text{W}$
T_j	Junction Temperature	125	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^\circ\text{C}$

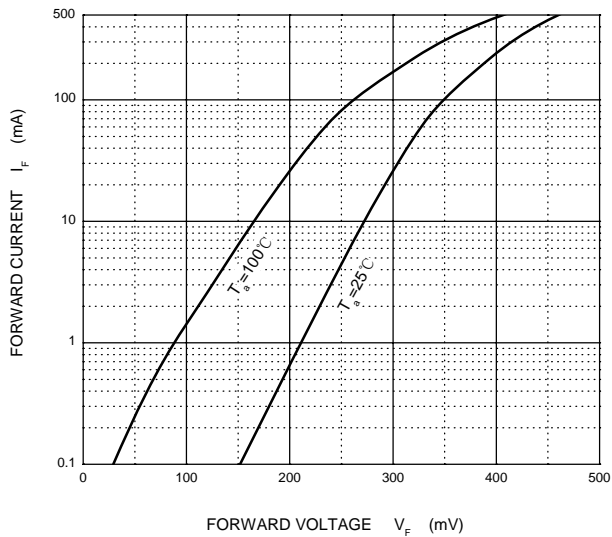
ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$ unless otherwise specified)

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

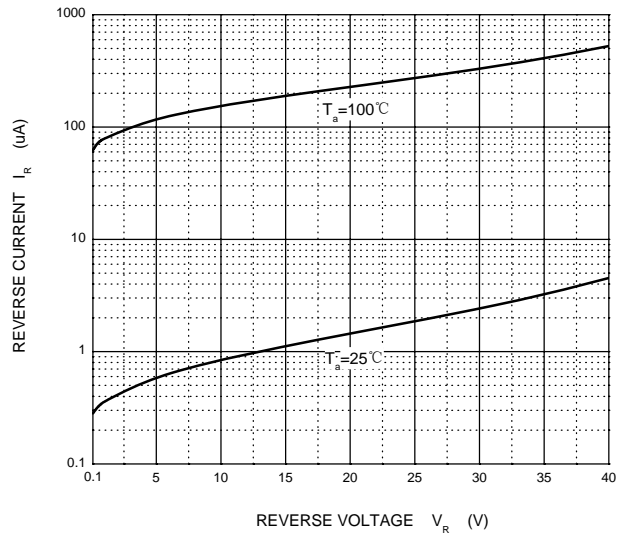
Typical Characteristics

RB551V-40

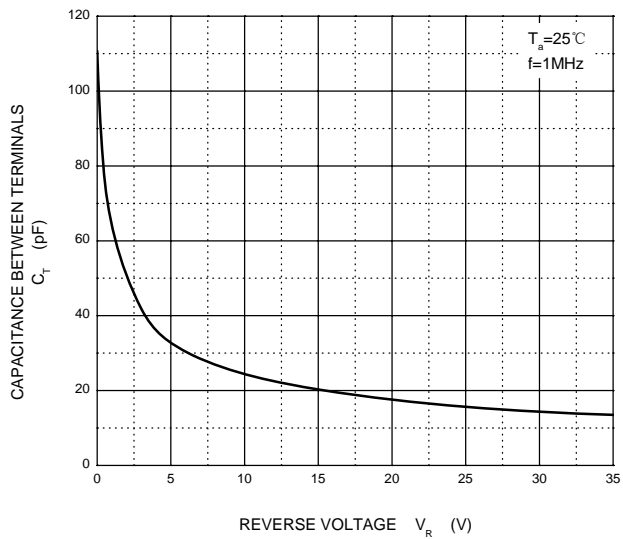
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

