RB551V-40

Plastic-Encapsulate Diodes

Schottky Barrier Diode

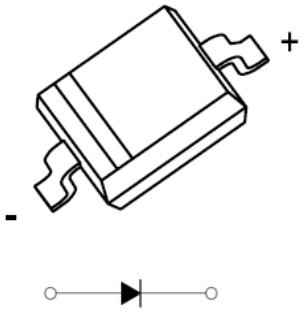
FEATURES

- Small Surface Mounting Type
- Low V_F
- High Reliability

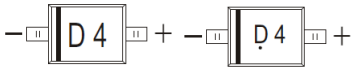
APPLICATIONS

- High-Frequency Rectification Switching Regulators

SOD-323



MARKING: D4



The marking bar indicates the cathode
Solid dot = Green molding compound device,if none, the normal device.

MAXIMUM RATINGS (T_a =25℃ unless otherwise noted)

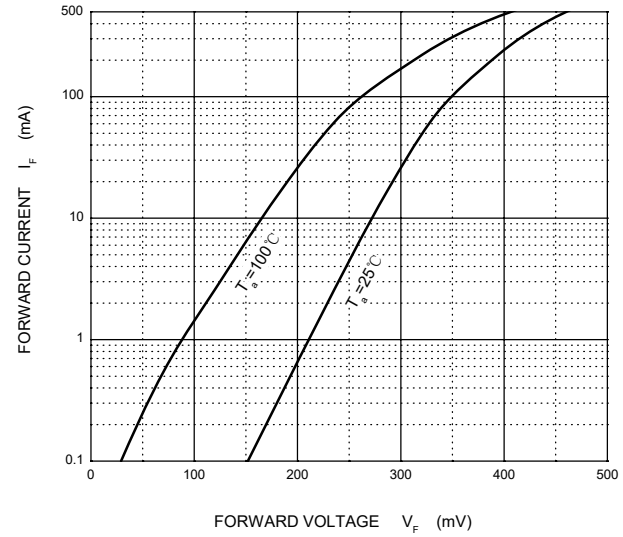
Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	V
I_O	Continuous Forward Current	500	mA
I_{FSM}	Non-repetitive Forward Peak Surge Current @t=8.3ms	2	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	500	℃/W
T_j	Operating Junction Temperature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

ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

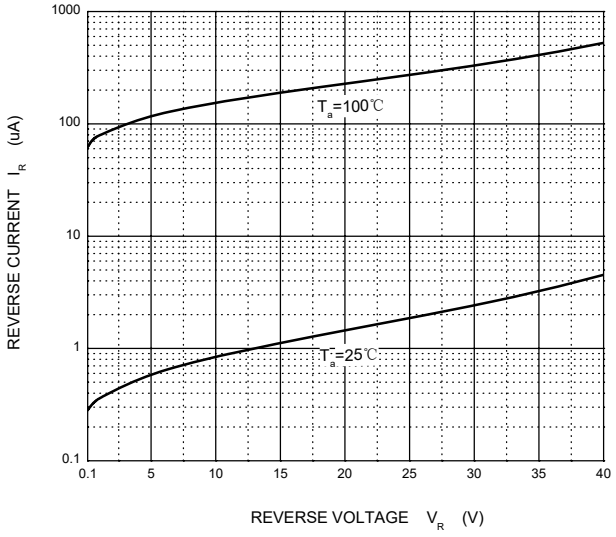
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=0.1mA	40			V
Reverse current	I_R	V_R=40V			0.1	mA
Forward voltage	V_F	I_F=500mA			0.47	V

Typical Characteristics

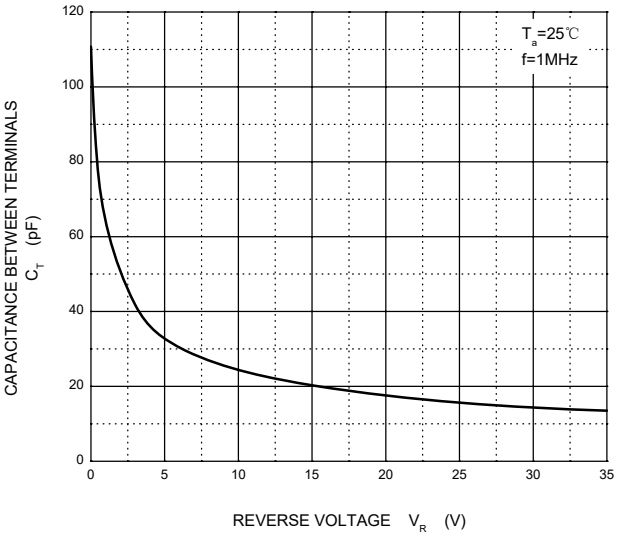
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve