

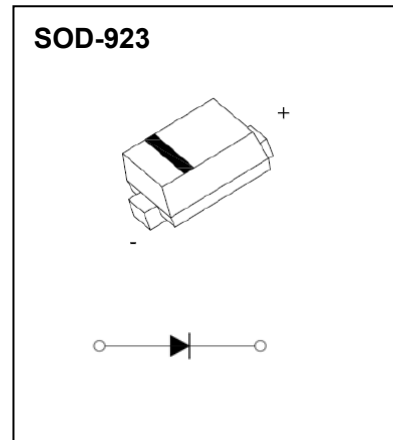


SOD-923 Plastic-Encapsulate Diodes

RB751CS-40

SCHOTTKY BARRIER DIODE

SOD-923



FEATURES

- Ultra Small Surface Mounting Type
- Low Forward Voltage
- High Reliability

APPLICATIONS:

- Low current rectification

MARKING:5

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	Forward Continuous Current	30	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current	200	mA
P_D	Power Dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	100	$^{\circ}\text{C}/\text{W}$
T_j	Junction Temperature	105	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^{\circ}\text{C}$

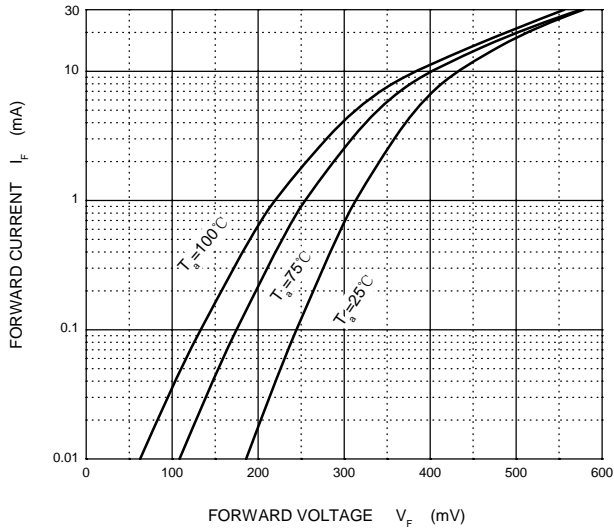
ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=1\text{mA}$	40			V
Reverse current	I_R	$V_R=30\text{V}$			0.5	μA
Forward voltage	V_F	$I_F=1\text{mA}$			0.37	V
Total capacitance	C_{tot}	$V_R=1\text{V}, f=1\text{MHz}$		2		pF

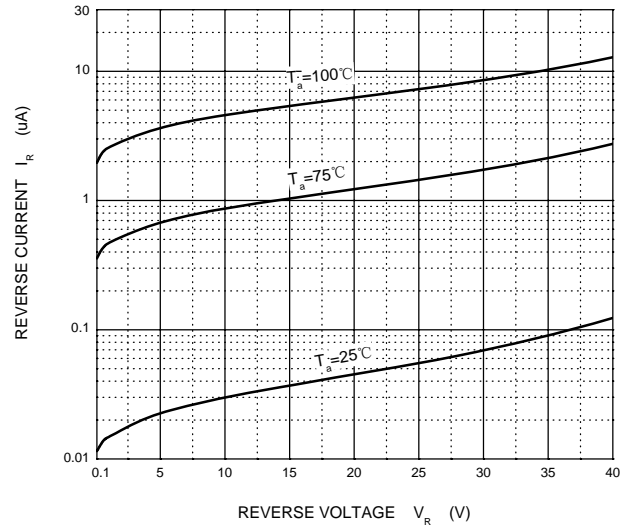
Typical Characteristics

RB751CS-40

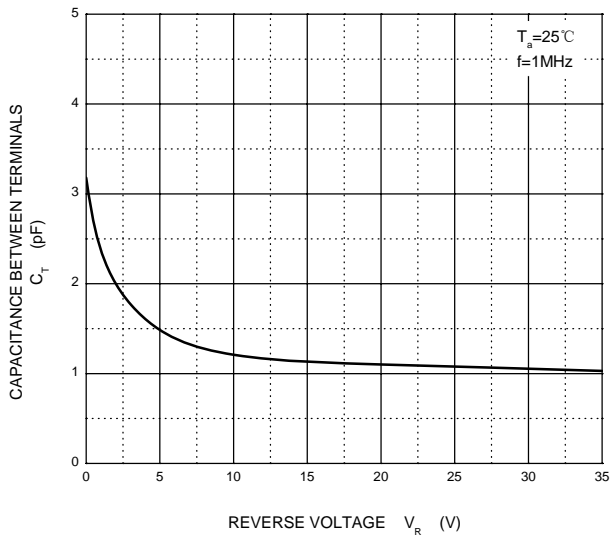
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

