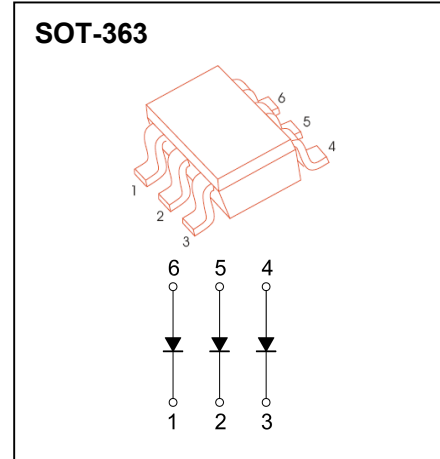




## SOT-363 Plastic-Encapsulate Diodes

**RB731XN** SCHOTTKY BARRIER DIODE



### FEATURES

- Small Power Mold Type
- Low  $V_F$
- High Reliability

### APPLICATIONS

- General Rectification

**MARKING: 731**

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

Symbol	Parameter	Value	Unit
$V_R$	DC Blocking Voltage	40	V
$I_O$	Average Rectified Forward Current	30	mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current@10ms	200	mA
$P_D$	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	$V_{(BR)}$	$I_R=100\mu\text{A}$	40			V
Reverse current	$I_R$	$V_R=10\text{V}$			1	$\mu\text{A}$
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