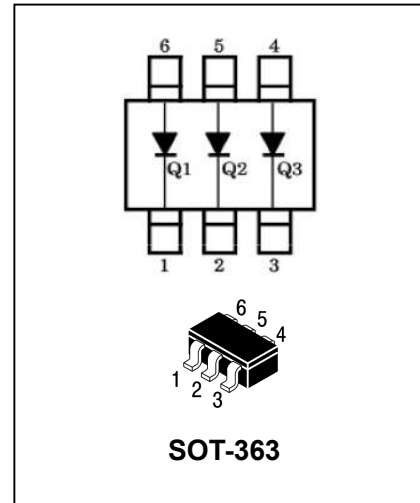


Surface Mount Schottky Barrier Diodes

RB731XN

FEATURES

- Small power mold type.
- Low VF.
- High reliability.



APPLICATIONS

- Ultra high speed switching.

ORDERING INFORMATION

Type No.	Marking	Package Code
RB731XN	731	SOT-363

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Characteristic	Value	Unit
V_{RM}	Maximum peak reverse Voltage	40	V
V_R	DC reverse Voltage	40	V
I_O	Average forward output current	30	mA
I_{FSM}	Non-Repetitive peak forward surge current	0.2	A
P_D	Power Dissipation	200	mW
T_j, T_{stg}	Junction and Storage Temperature	-40 to +125	°C

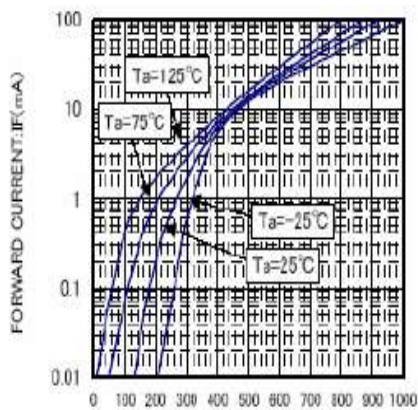
Surface Mount Schottky Barrier Diodes

RB731XN

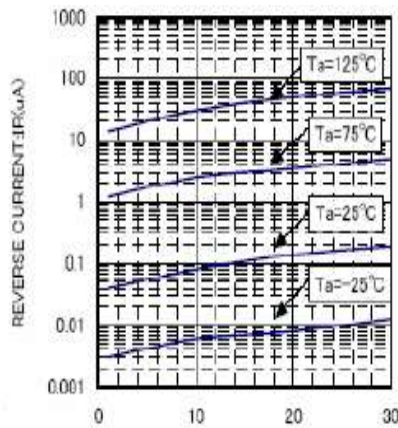
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu A$	40	-	V
Average reverse current	I_R	$V_R=10V$		1	μA
Forward voltage	V_F	$I_F=1mA$	-	0.37	V
Total Capacitance	C_T	$V_R=1.0V, f=1.0MHz$	-	2	pF

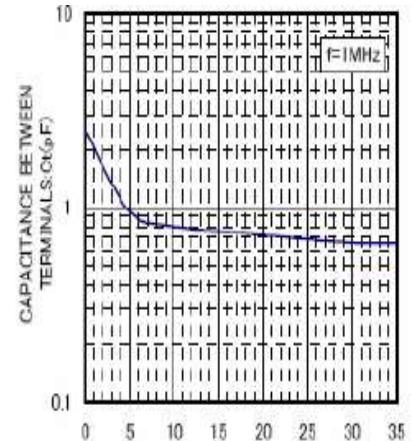
TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



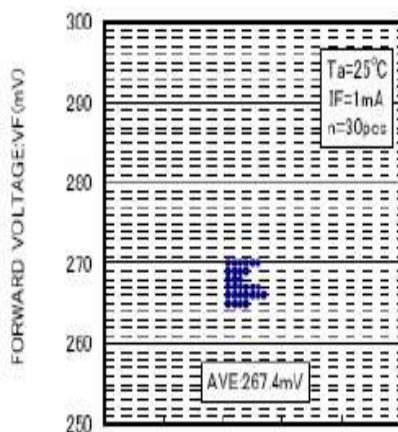
FORWARD VOLTAGE: VF(mV)
VF-IF CHARACTERISTICS



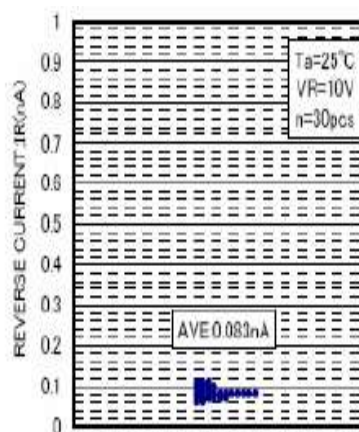
REVERSE VOLTAGE: VR(V)
VR-IR CHARACTERISTICS



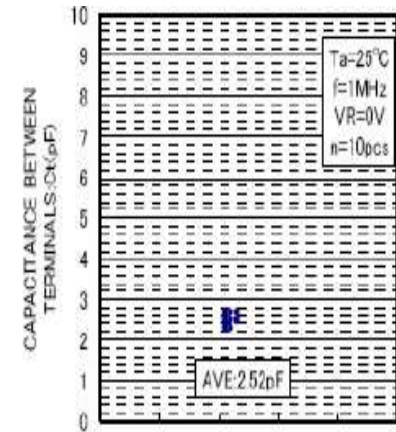
REVERSE VOLTAGE/VR(V)
VR-Ct CHARACTERISTICS



VF DISPERSION MAP



IR DISPERSION MAP



Ct DISPERSION MAP

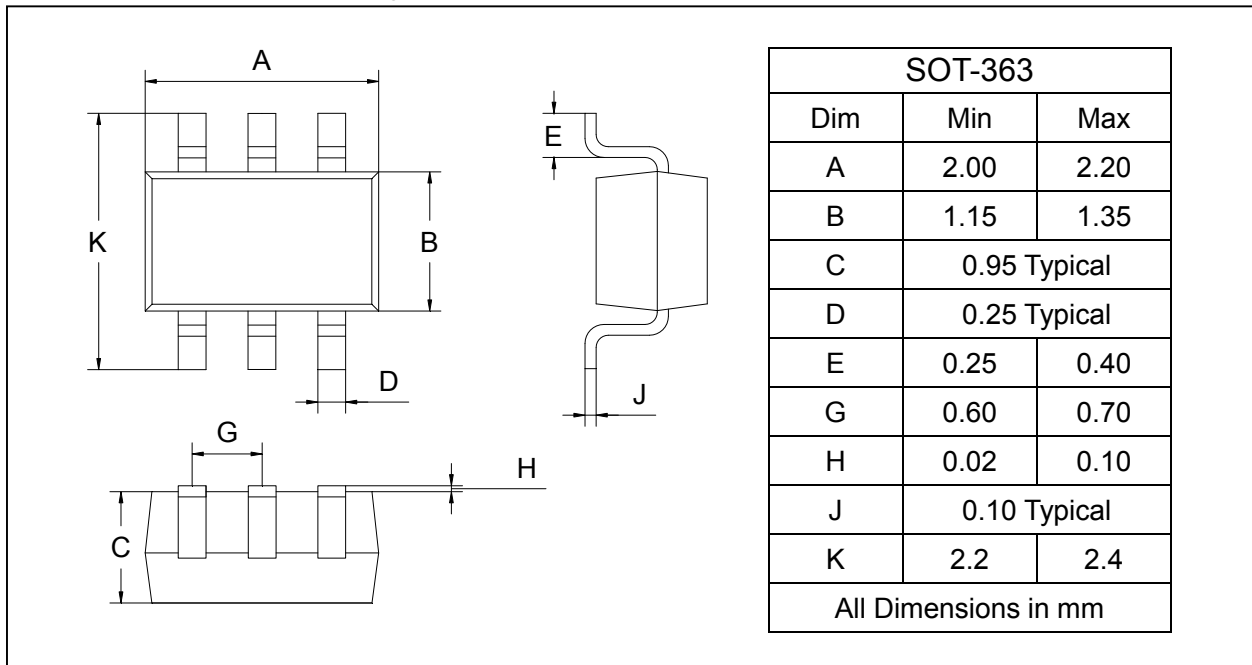
Surface Mount Schottky Barrier Diodes

RB731XN

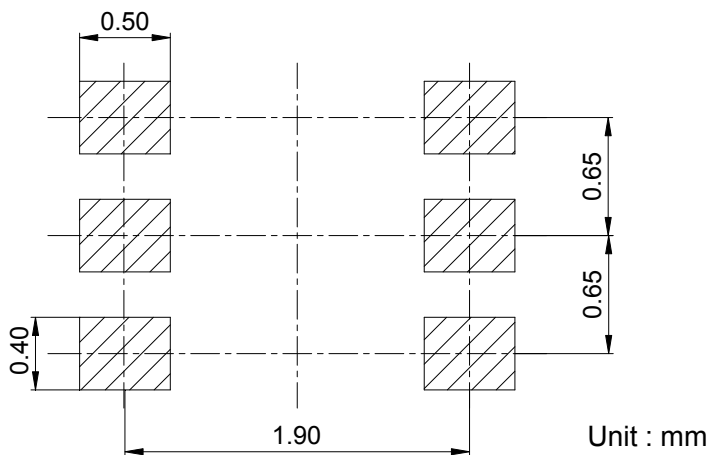
PACKAGE OUTLINE

Plastic surface mounted package

SOT-363



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
RB731XN	SOT-363	3000/Tape&Reel