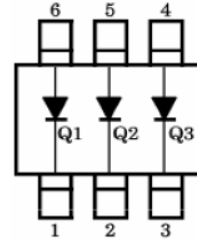




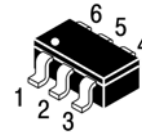
## FEATURES

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



## APPLICATIONS

- Ultra high speed switching.



**SOT-363**

## ORDERING INFORMATION

Type No.	Marking	Package Code
RB731XN□	731	SOT-363

□: none is for Lead Free package;  
 “G” is for Halogen Free package.

## MAXIMUM RATING @ Ta=25°C unless otherwise specified

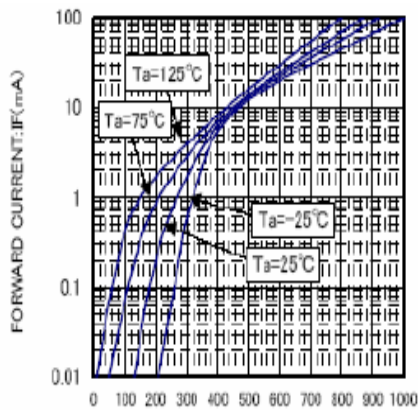
Symbol	Characteristic	Value	Unit
$V_{RM}$	Maximum peak reverse Voltage	40	V
$V_R$	DC reverse Voltage	40	V
$I_O$	Average forward output current	30	mA
$I_{FSM}$	Non-Repetitive peak forward surge current	0.2	A
$P_D$	Power Dissipation	200	mW
$T_j, T_{stg}$	Junction and Storage Temperature	-40 to +125	°C



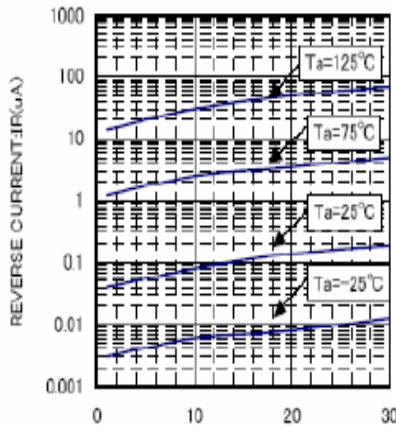
## ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

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	$\mu A$
Forward voltage	$V_F$	$I_F=1mA$	-	0.37	V
Total Capacitance	$C_T$	$V_R=1.0V, f=1.0MHz$	-	2	pF

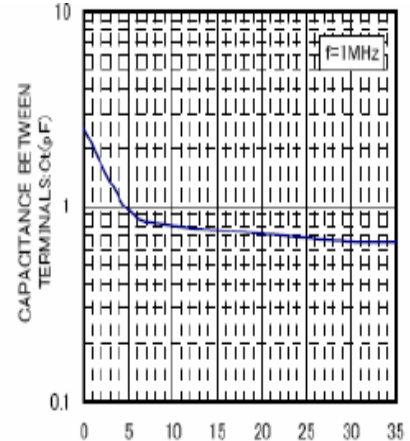
## TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



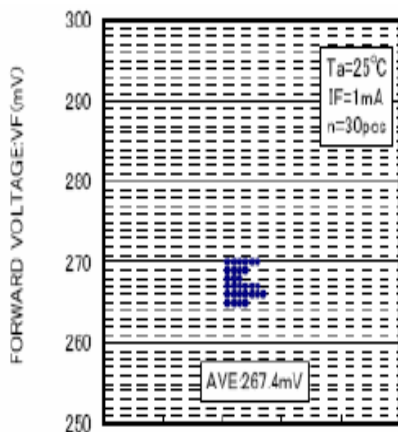
FORWARD VOLTAGE:  $V_F$ (mV)  
VF-IF CHARACTERISTICS



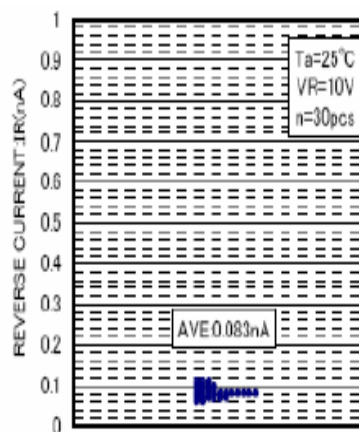
REVERSE VOLTAGE:  $V_R$ (V)  
VR-IR CHARACTERISTICS



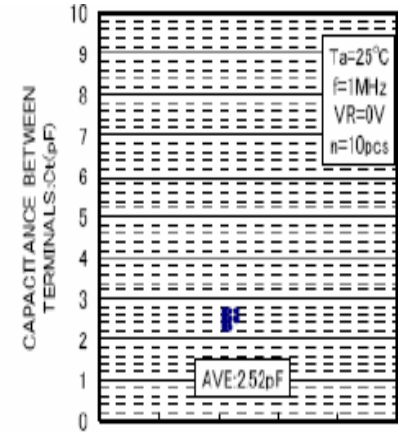
REVERSE VOLTAGE:  $V_R$ (V)  
VR-Ct CHARACTERISTICS



VF DISPERSION MAP



IR DISPERSION MAP



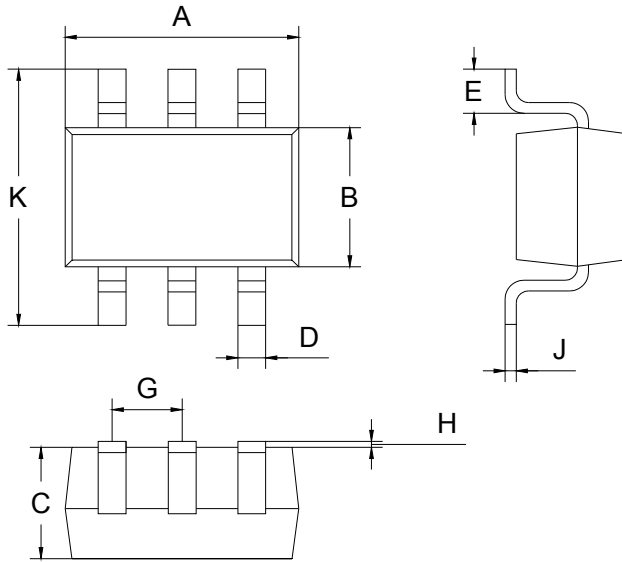
Ct DISPERSION MAP



## PACKAGE OUTLINE

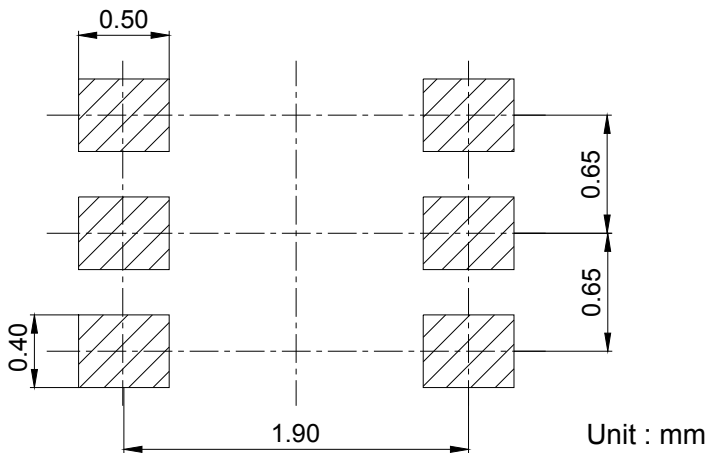
Plastic surface mounted package

SOT-363



SOT-363		
Dim	Min	Max
A	2.00	2.20
B	1.15	1.35
C	0.85	1.05
D	0.15	0.35
E	0.25	0.40
G	0.60	0.70
H	0.02	0.10
J	0.05	0.15
K	2.20	2.40
All Dimensions in mm		

## SOLDERING FOOTPRINT



## PACKAGE INFORMATION

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