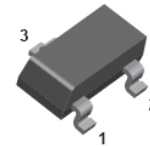
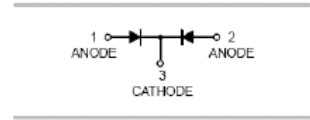




FEATURES

- Small surface mounting type.
- Low V_F and low I_R .
- High reliability.



SOT-23

APPLICATIONS

- For general purpose applications.

ORDERING INFORMATION

Type No.	Marking	Package Code
RB751C-40□	A3J	SOT-23

□: none is for Lead Free package;

“G” is for Halogen Free package.

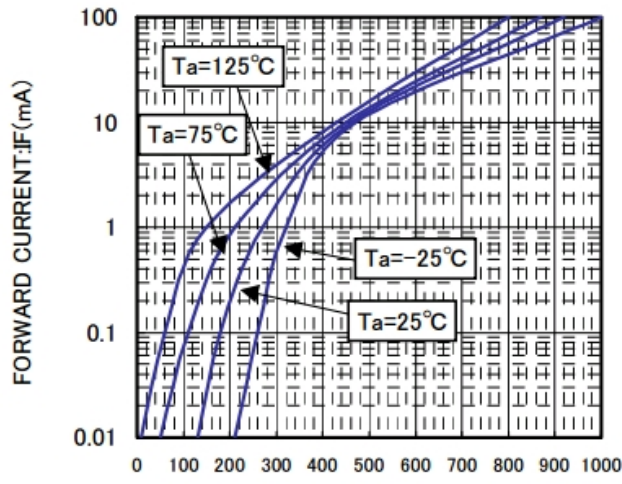
MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	40	V
Diode reverse voltage	V_R	30	V
Average output Current	I_O	30	mA
Forward Surge Current (10ms)	I_{FSM}	200	mA
Power Dissipation	P_D	300	mW
Junction temperature	T_J	125	$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +125	$^\circ\text{C}$

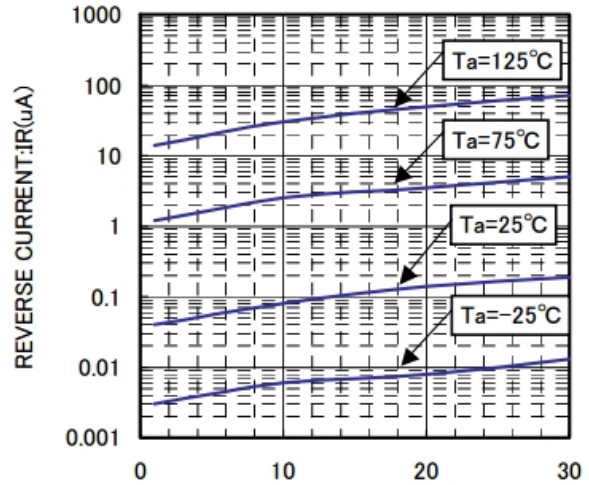
ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	Typ.	MAX	UNIT
Reverse current	I_R	$V_R=30\text{V}$	-	-	0.5	μA
Forward voltage	V_F	$I_F=1\text{mA}$	-	-	0.37	V
Diode capacitance	C_D	$V_R=1\text{V}, f=1\text{MHz}$	-	2	-	pF

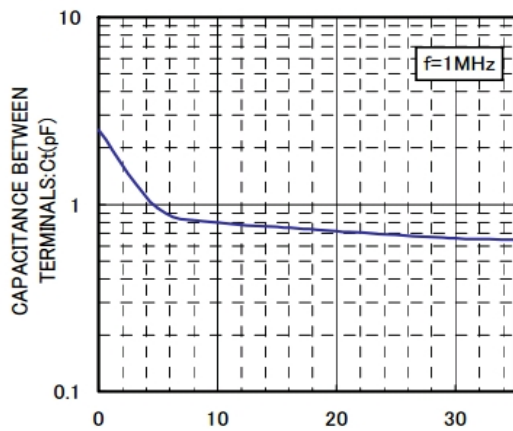
TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



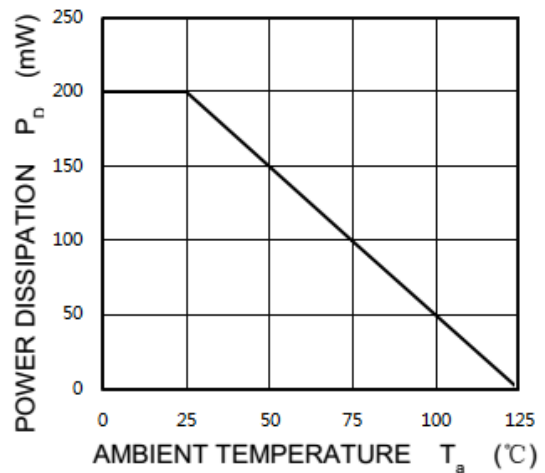
FORWARD VOLTAGE: VF(mV)
VF-IF CHARACTERISTICS



REVERSE VOLTAGE: VR(V)
VR-IR CHARACTERISTICS



REVERSE VOLTAGE: VR(V)
VR-Ct CHARACTERISTICS

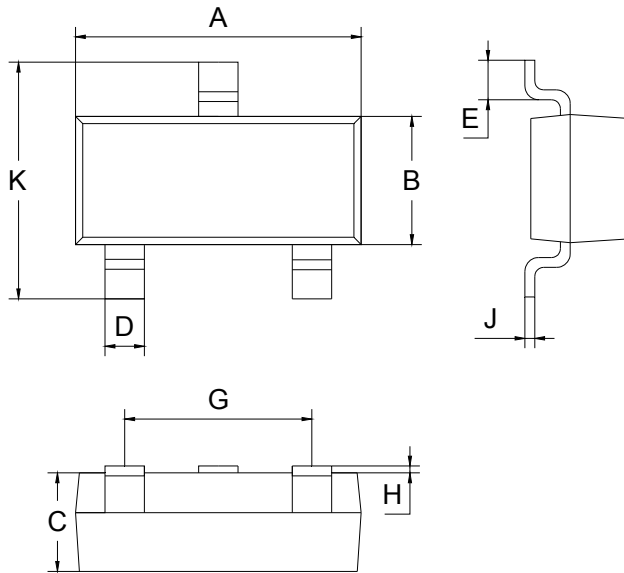


Power Derating Curve

PACKAGE OUTLINE

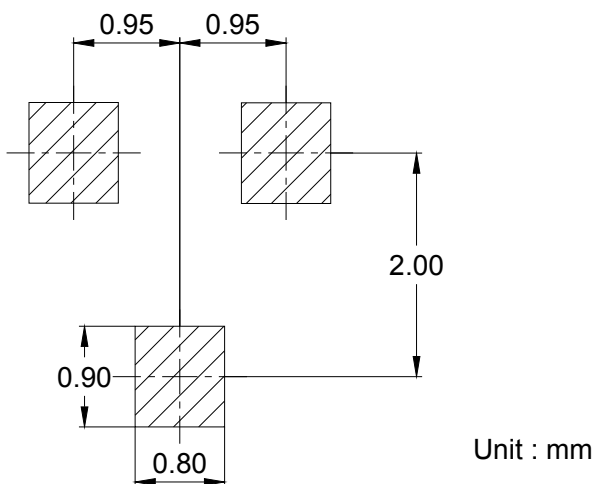
Plastic surface mounted package

SOT-23



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
RB751C-40	SOT-23	3000/Tape&Reel