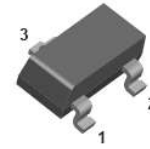
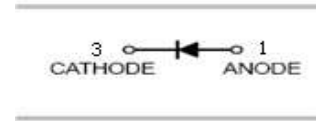




FEATURES

- Small surface mounting type.
- Low reverse current and low forward voltage.
- High reliability.



SOT-23

APPLICATIONS

- Schottky barrier diode.

ORDERING INFORMATION

Type No.	Marking	Package Code
RB491D□	D2E	SOT-23

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

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	25	V
DC Reverse Voltage	V_R	20	V
Mean rectifying Current	I_F	1	A
Peak forward Surge current	I_{FSM}	3	A
Operating Junction Temperature Range	T_j	125	°C
Storage Temperature Range	T_{STG}	-40 to +125	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Forward Voltage	V_F	-	0.45	V	$I_F=1A$
Reverse Leakage Current	I_R	-	200	μA	$V_R=20V$



TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

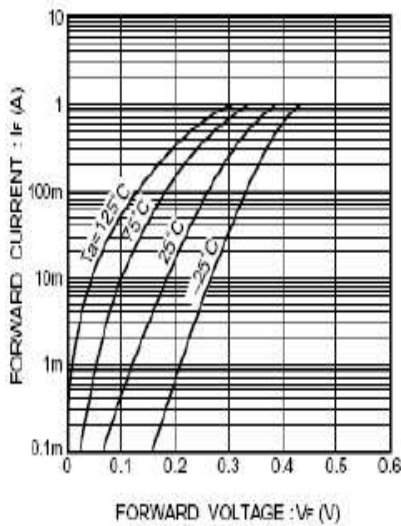


Fig.1 Forward characteristics

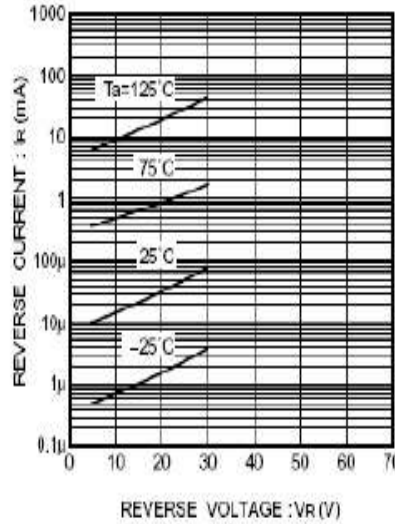


Fig.2 Reverse characteristics

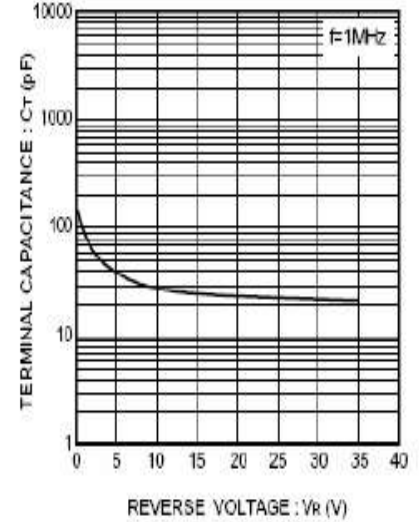


Fig.3 Capacitance between terminals characteristics

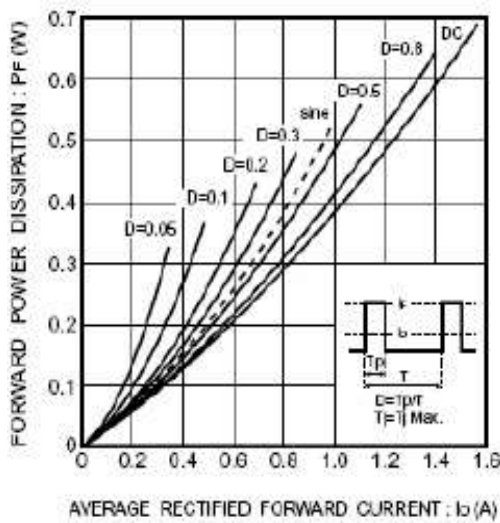


Fig.4 Forward power dissipation characteristics

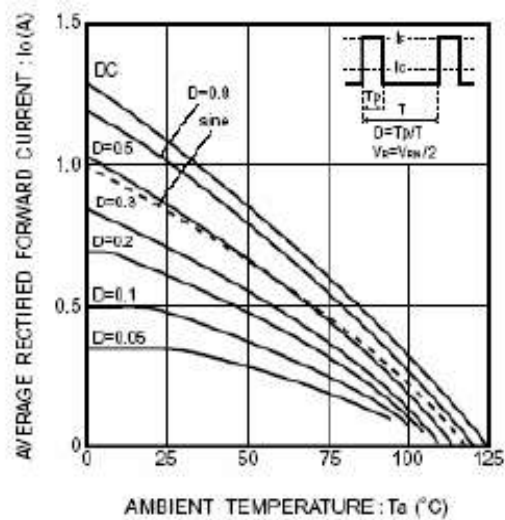


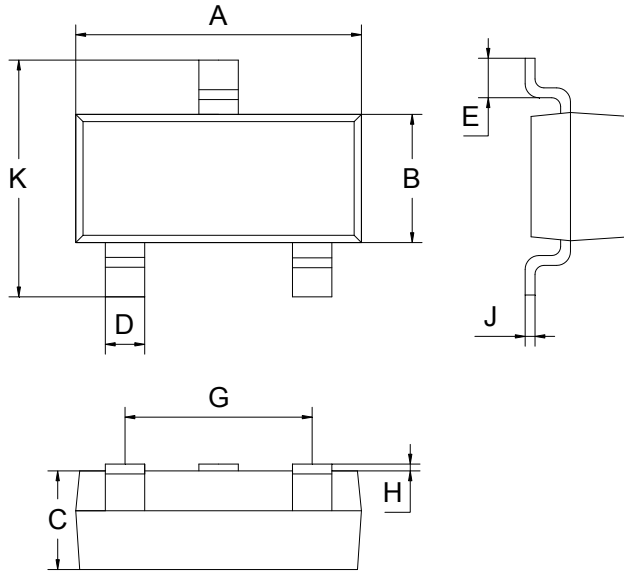
Fig.5 Derating curve ($I_o - T_a$)



PACKAGE OUTLINE

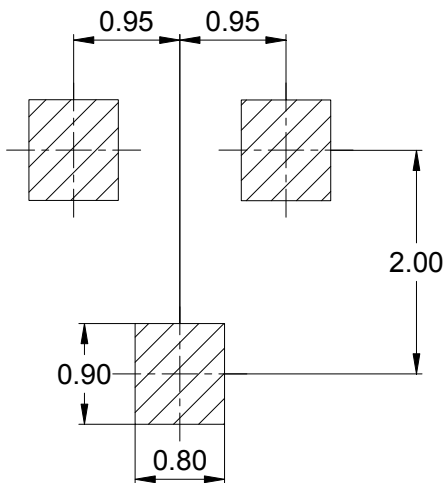
Plastic surface mounted package

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
RB491D	SOT-23	3000/Tape&Reel