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RB491D Schottky Barrier Diode

SOT-23 Plastic-Encapsulate Diodes

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客户确认：

公司签章：

部门	工程部	品保部	采购部
签名			
日期			

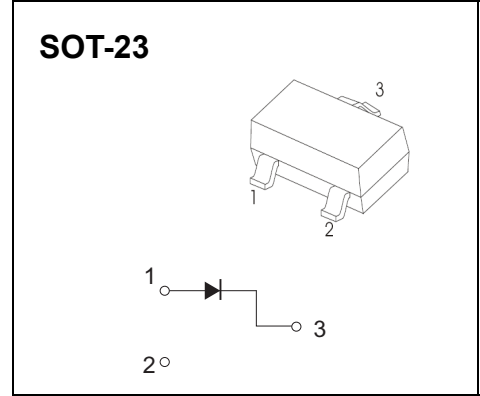


SOT-23 Plastic-Encapsulate Diodes

RB491D Schottky Barrier Diode

FEATURES

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



Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

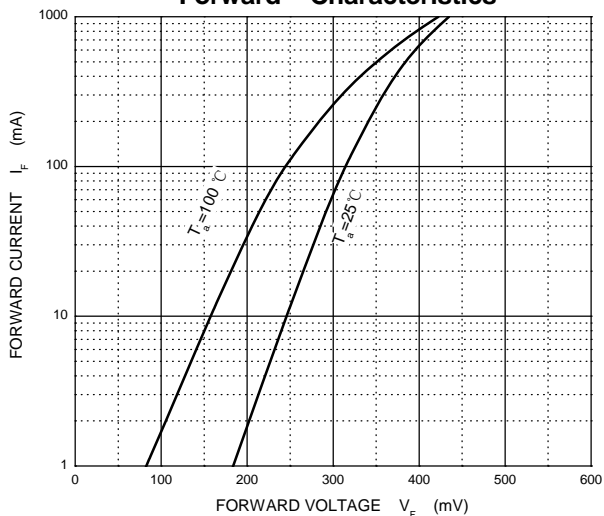
Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	25	V
DC reverse voltage	V_R	20	V
Mean rectifying current	I_F	1	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	3	A
Power dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55~+150	°C

Electrical Ratings @Ta=25°C

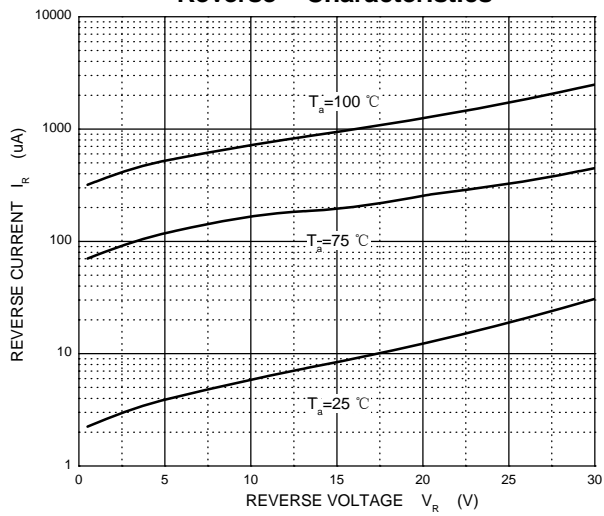
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F			0.45	V	$I_F=1A$
Reverse current	I_R			200	μA	$V_R=20V$

Typical Characteristics

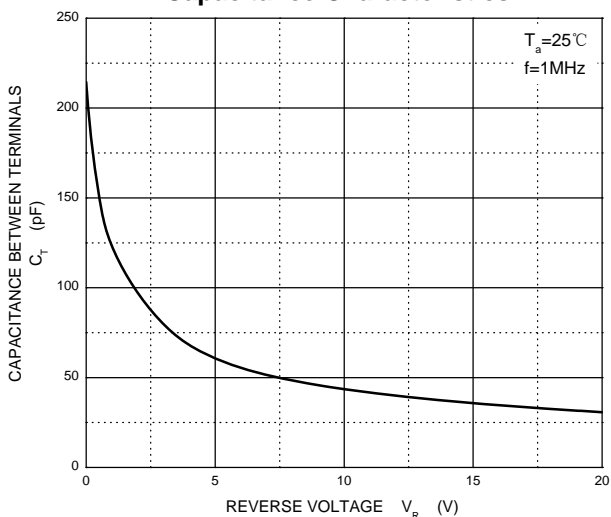
Forward Characteristics



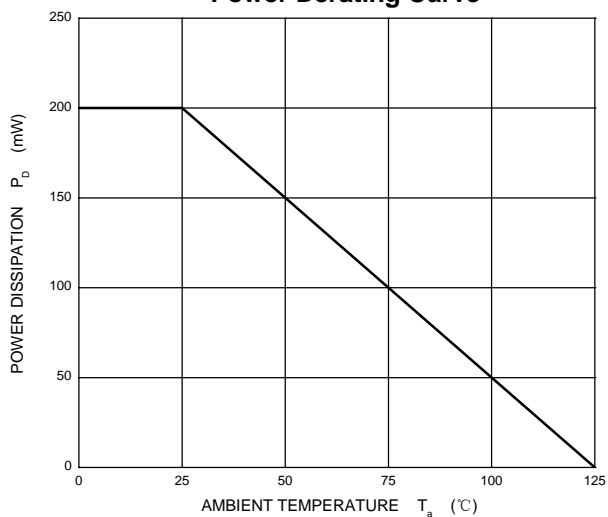
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve



SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.