



Micro Commercial Components

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RB491D

Features

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	25	V
DC Reverse Voltage	V_R	20	V
Mean Rectifying Current	I_O	1	A
Peak Forward Surge Current	I_{FSM}	3	A
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-40 to 125	°C

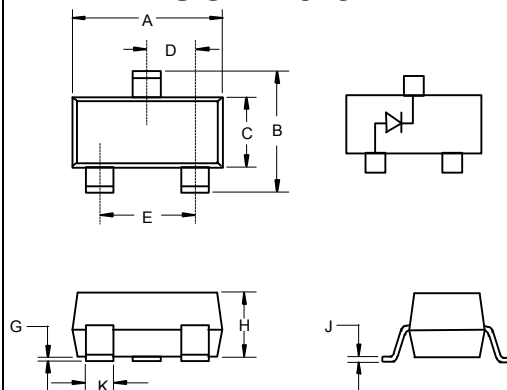
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage @ $I_F=1A$	V_{F1}	---	---	0.45	V
Reverse Current @ $V_R=20V$	I_R	---	---	200	uA

Marking: D2E

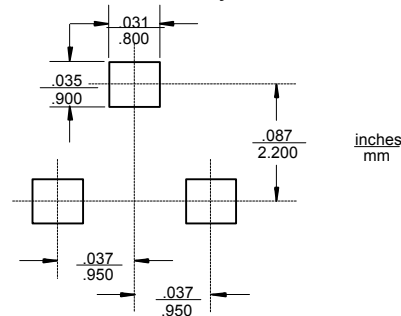
1.0 Amp Schottky Barrier Rectifier 20 Volts

SOT-23-3L



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.113	.117	2.87	2.97	
B	.108	.112	2.75	2.85	
C	.061	.065	1.55	1.65	
D	.036	.038	.925	.975	
E	.073	.077	1.85	1.95	
G	.0016	.0039	.04	.100	
H	.044	.049	1.12	1.25	
J	.006	.007	.14	.17	
K	.013	.015	.34	.37	

Suggested Solder Pad Layout



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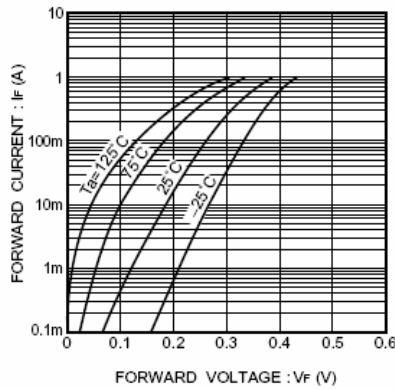


Fig.1 Forward characteristics

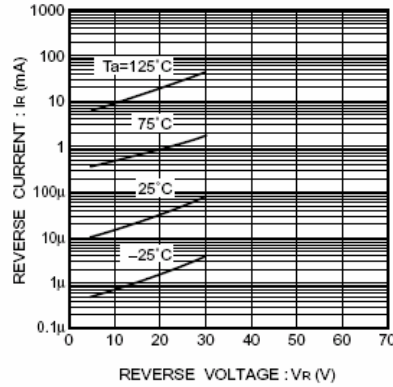


Fig.2 Reverse characteristics

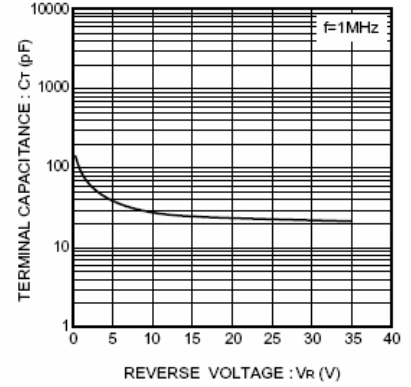


Fig.3 Capacitance between terminals characteristics

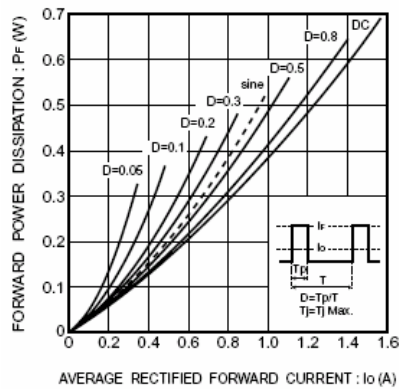


Fig.4 Forward power dissipation characteristics

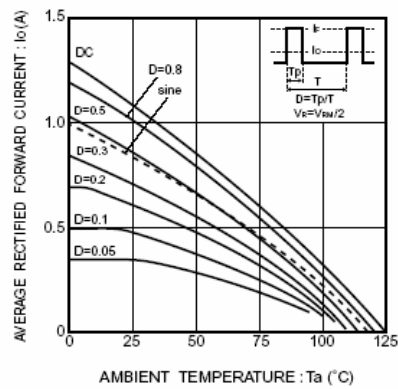


Fig.5 Derating curve ($I_o - T_a$)

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