

## *Micro Commercial Components Corp.*

### Products End of Life Notification

Issue date: Aug-1<sup>th</sup>-2008

Last Buy Date :Jan-1<sup>th</sup>-2009

Description and Purpose:

MCC has undergone a review of its core business and products , and  
determined to discontinue below products:

Discontinued Devices	Possible Replacements
RB400D	RB400DS
RB411D	RB411DS
RB420D	RB420DS
RB421D	RB421DS
RB425D	RB425DS
RB491D	RB491DS
RB495D	RB495DS



Micro Commercial Components

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

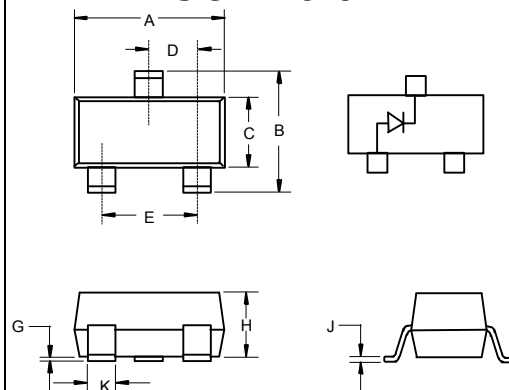
### Electrical Characteristics @ 25°C Unless Otherwise Specified

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

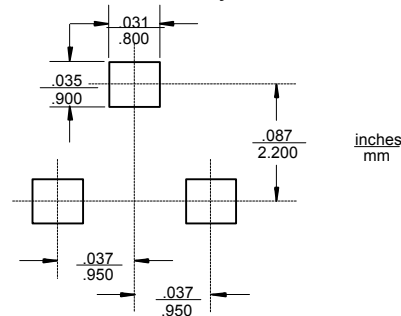
## 1.0 Amp Schottky Barrier Rectifier 20 Volts

### 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



# RB491D



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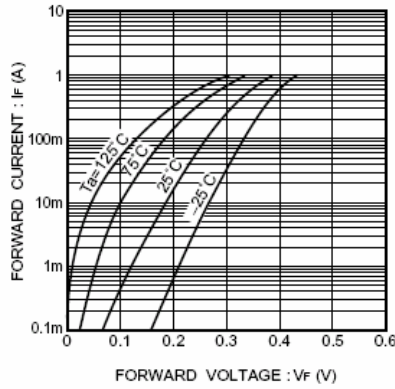


Fig.1 Forward characteristics

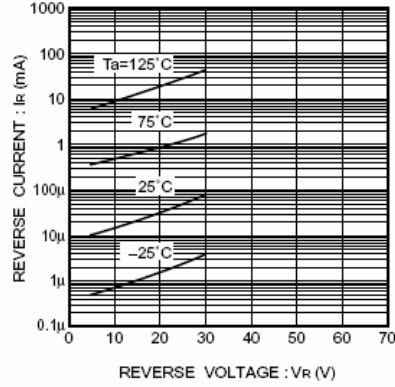


Fig.2 Reverse characteristics

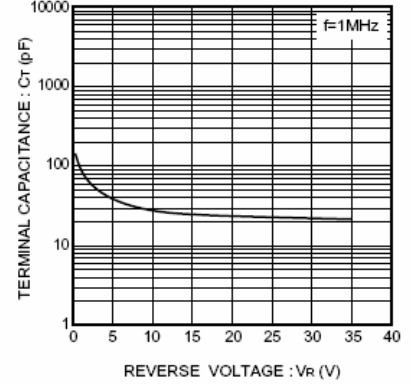


Fig.3 Capacitance between terminals characteristics

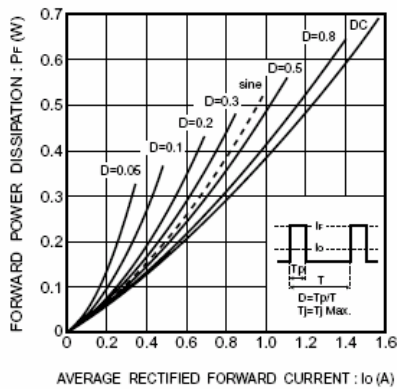


Fig.4 Forward power dissipation characteristics

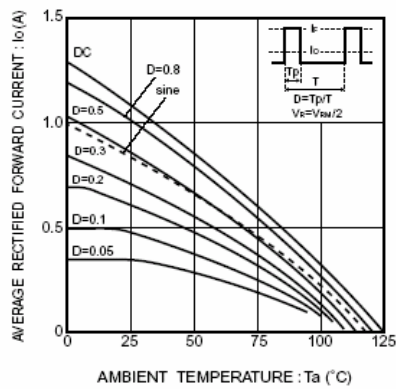


Fig.5 Derating curve ( $I_o - T_a$ )



TM

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