

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 **RB500V-40** 

# **Features**

- Halogen free available upon request by adding suffix "-HF"
- Marking: 2
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

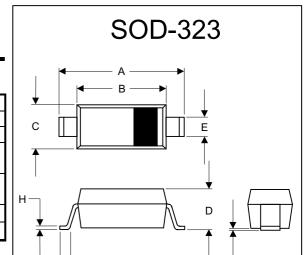
# **Maximum Ratings**

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	45	V
DC Reverse Voltage	$V_R$	40	V
Mean Rectifying Current	Io	100	mA
Peak Forward Surge Current	I <sub>FSM</sub>	1	А
Junction Temperature	Τ <sub>J</sub>	125	$^{\circ}\!\mathbb{C}$
Storage Temperature	T <sub>STG</sub>	-40 to +125	$^{\circ}\mathbb{C}$

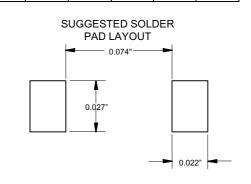
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min.	Тур.	Max.	Unit
Forward Voltage @ I <sub>F</sub> =10mA	V <sub>F</sub>			0.45	٧
Reverse Current @V <sub>R</sub> =10V	I <sub>R</sub>			1	uA
Capacitance Terminal @V <sub>R</sub> =10V, f=1MHz	Ст		6.0		pF

# 0.1 Amp Schottky Barrier Rectifier 40 Volts



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX			
Α	.090	.107	2.30	2.70			
В	.063	.071	1.60	1.80			
С	.045	.053	1.15	1.35			
D	.031	.045	0.80	1.15			
Е	.010	.016	0.25	0.40			
G	.004	.018	0.10	0.45			
Н	.004	.010	0.10	0.25			
J		.006		0.15			



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## ●Electrical characteristic curves (Ta = 25°C)

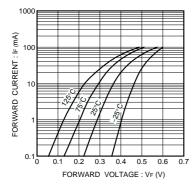


Fig. 1 Forward characteristics

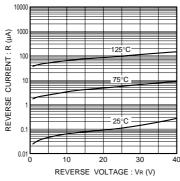


Fig. 2 Reverse characteristics

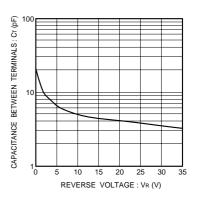


Fig. 3 Capacitance between terminals characteristics

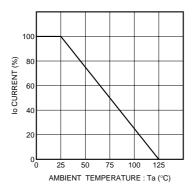


Fig. 4 Derating curve (mounting on glass epoxy PCBs)



#### **Micro Commercial Components**

# **Ordering Information:**

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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