

#### **ABSOLUTE RATINGS**

Parameter	Symbol	Value	Units
Maximum Peak Reverse Voltage	V <sub>RRM</sub>	45	V
Reverse DC Voltage	V <sub>R</sub>	30	V
Maximum Forward Current	I <sub>F(AV)</sub>	0.1	A
Maximum Forward Peak Current at t=8.3ms	I <sub>FSM</sub>	1	А
Power Dissipation (Note 1)	P <sub>TOT</sub>	0.2	W
Junction Temperature	TJ	-55 to + 125	°C
Storage Temperature	Τ <sub>stg</sub>	-55 to + 125	°C

#### **THERMAL CHARACTERISTICS**

Parameter	Symbol	Value	Units
Thermal Resistance, Junction to Ambient (Note 1)	$R_{_{\theta_{JA}}}$	700	°C/W

NOTE :

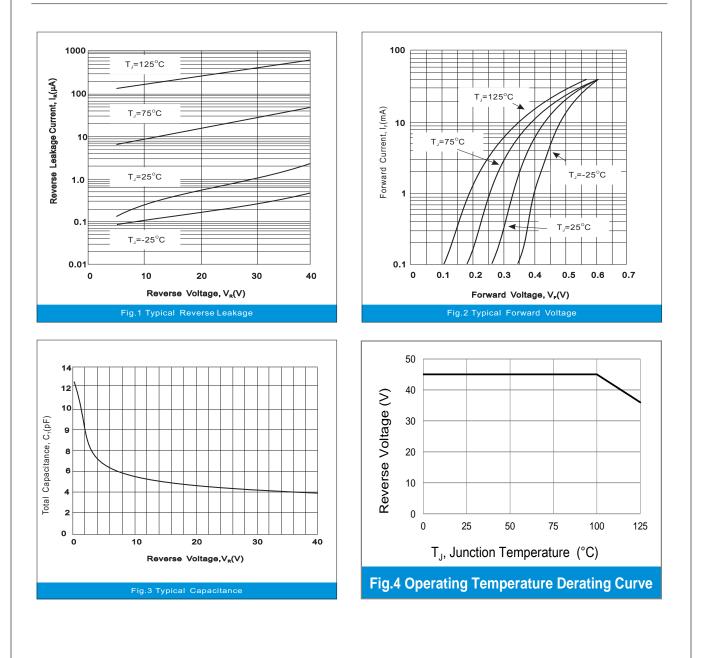
1.Mounted on an FR-4 PCB, single-sided copper,with 76.2x114.3 mm copper pad area.



### ELECTRICAL CHARACTERISTICS ( $T_{\rm J}\text{=}25^{\circ}\text{C}$ unless otherwise noted )

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =10V	-	-	1	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	-	-	0.45	V
Total Capacitance	C <sub>T</sub>	$V_{R} = 10V, F = 1MH_{z}$	-	6	-	рF

#### ELECTRICAL CHARACTERISTICS CURVE

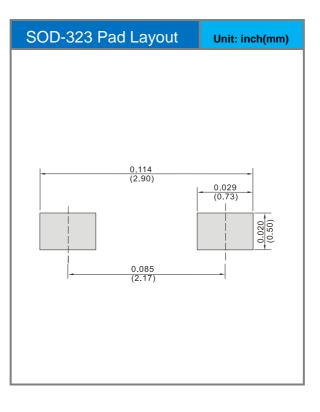




### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
RB500V-40	SOD-323	5K pcs / 7" reel	500
RB500V-40	SOD-323	12K pcs / 13" reel	500

### **Mounting Pad Layout**





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