

# RB521S-40

# SCHOTTKY BARRIER DIODE

**PRV : 40 Volts**

**I<sub>o</sub> : 200 mA**

**FEATURES :**

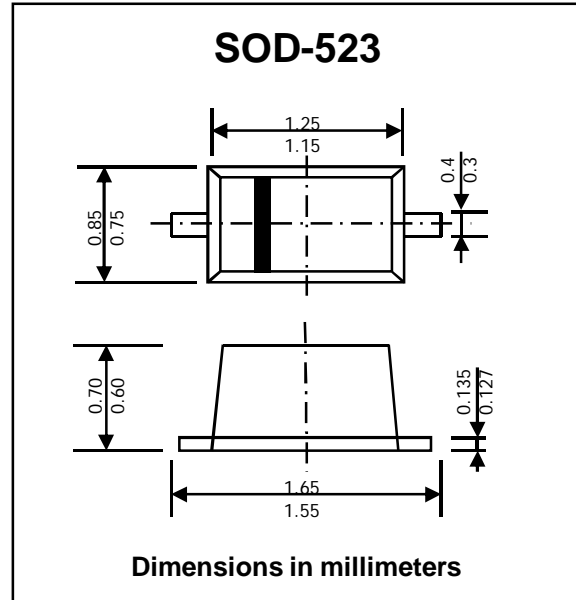
- \* Low forward voltage
- \* High reliability
- \* Pb / RoHS Free

**APPLICATIONS :**

- \* Rectifying small power applications

**MECHANICAL DATA :**

- \* Lead finish : 100% Matte Sn (Tin)
- \* Mounting position : Any
- \* Qualified max reflow temperature : 260 °C



**Maximum Ratings and Thermal Characteristics** (T<sub>a</sub> = 25 °C)

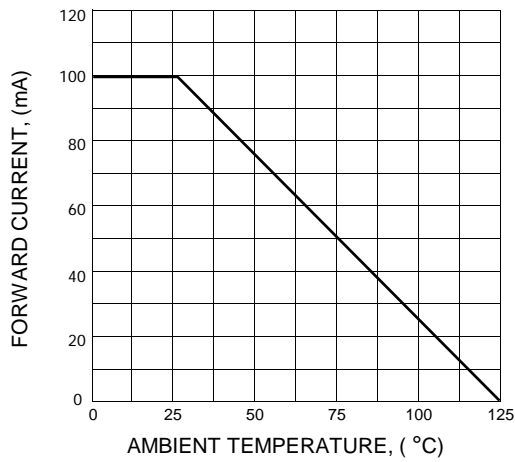
Parameter	Symbol	VALUE	Unit
Maximum DC Reverse Voltage	V <sub>R</sub>	40	V
Mean Rectifying Current	I <sub>O</sub>	200	mA
Maximum Peak Forward Surge Current ( 60 Hz for cycle)	I <sub>FSM</sub>	1.0	A
Junction Temperature	T <sub>J</sub>	150	°C
Storage temperature range	T <sub>STG</sub>	-40 to + 150	°C

**Electrical Characteristics** (T<sub>a</sub> = 25 °C)

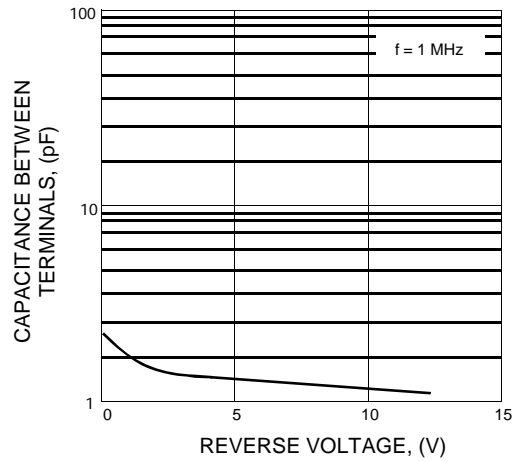
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 10 V	-	-	20	μA
		V <sub>R</sub> = 40 V	-	-	90	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 10 mA	0.16	-	0.3	V
		I <sub>F</sub> = 100 mA	0.31	-	0.5	
		I <sub>F</sub> = 200 mA	0.41	-	0.5	

**RATING AND CHARACTERISTIC CURVES ( RB521S-30 )**

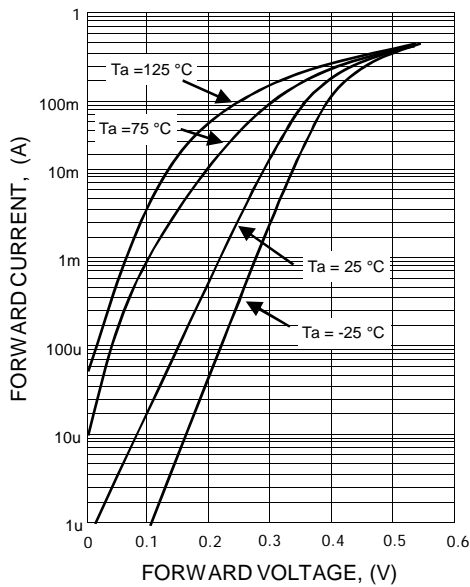
**FIG.1 - DERATING CURVE**



**FIG.2 - CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

