

RB501V-40

SCHOTTKY BARRIER DIODE

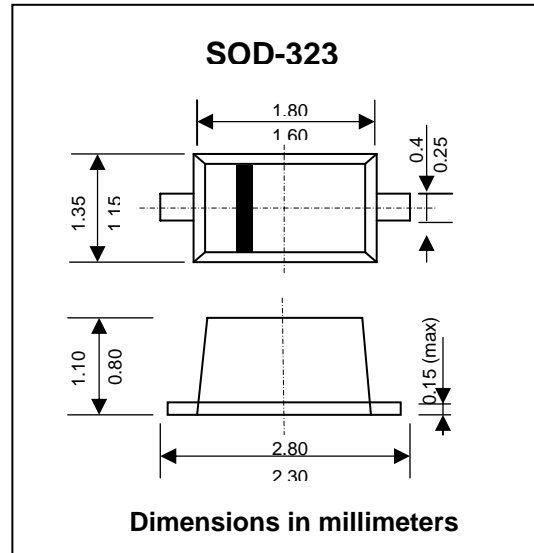
PRV : 40 Volts
I_O : 100 mA

FEATURES :

- * Small surface mounting type
- * High reliability
- * Low current rectification
- * **Pb Free / RoHS Compliance**

MECHANICAL DATA :

- * Case : SOD-323 plastic Case
- * Weight : approx. 0.004 g



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	VALUE	Unit
Peak Reverse Voltage	V _{RM}	45	V
Reverse Voltage	V _R	40	V
Mean Rectifying Current	I _O	100	mA
Peak Forward Surge Current (60 Hz for 1 Cyc.)	I _{FSM}	1.0	A
Junction Temperature	T _J	125	°C
Storage temperature range	T _{STG}	-40 to + 125	°C

Electrical Characteristics (T_a = 25 °C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F = 100 mA	-	-	0.55	V
		I _F = 10 mA	-	-	0.34	V
Reverse Current	I _R	V _R = 10 V	-	-	30	µA
Capacitance Between Terminals	C _T	V _R = 10V, f = 1MHz	-	6	-	pF

RATING AND CHARACTERISTIC CURVES (RB501V-40)

FIG.1 - DERATING CURVE

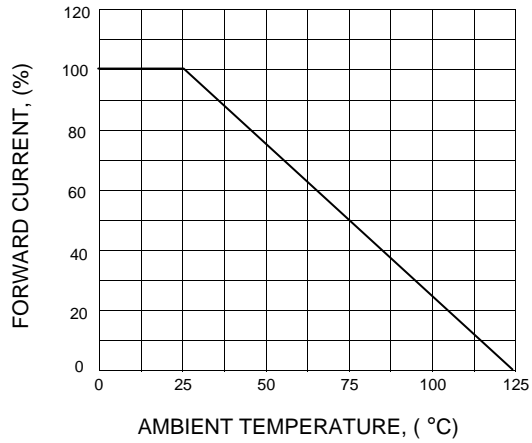


FIG.2 - CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS

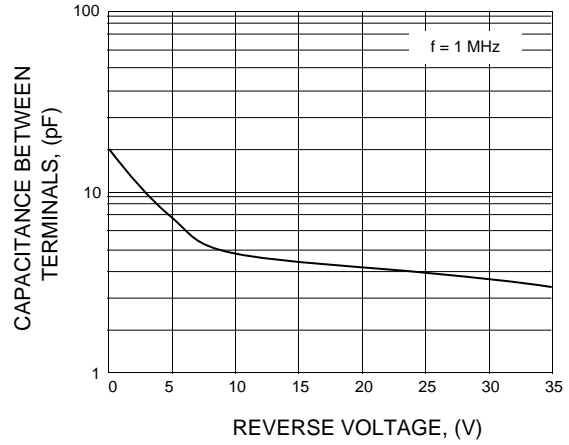


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

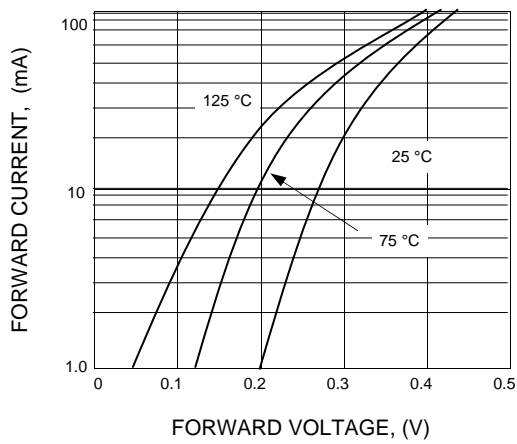


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

