

RB491D

SCHOTTKY BARRIER DIODE

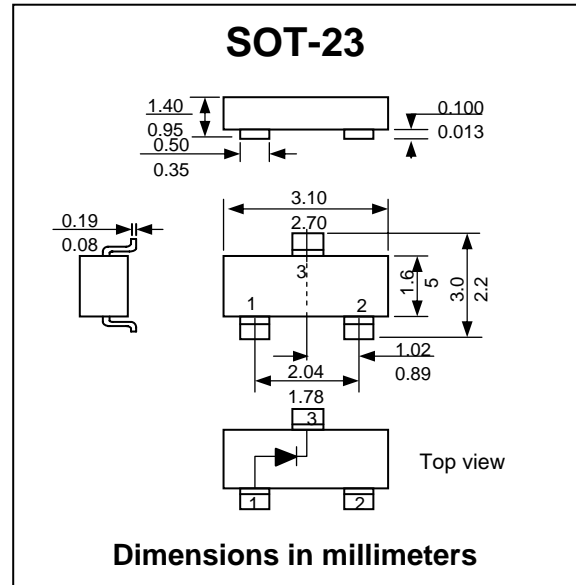
PRV : 25 Volts
I_o : 1 A

FEATURES :

- * Small surface mounting type.
- * Ultra low forward voltage
- * High reliability
- * **Pb / RoHS Free**

APPLICATIONS :

- * For switching power supply
- * Low-power rectification



MECHANICAL DATA :

- * Case : SOT-23 plastic Case
- * Marking : D2E

Maximum Ratings and Thermal Characteristics (Ta = 25 °C)

Parameter	Symbol	VALUE	Unit
Maximum Peak Reverse Voltage	V _{RM}	25	V
Maximum DC Reverse Voltage	V _R	20	V
Maximum Forward Current	I _F	1	A
Maximum Peak Forward Surge Current(60 Hz for 1 cyc.)	I _{FSM}	3.0	A
Junction Temperature	T _J	125	°C
Storage temperature range	T _{STG}	-40 to + 125	°C

Electrical Characteristics (Ta = 25 °C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F = 1.0 A	-	-	0.45	V
Reverse Current	I _R	V _R = 20 V	-	-	200	µA

Note: ESD sensitive product handling required.

RATING AND CHARACTERISTIC CURVES (RB491D)

FIG.1 - DERATING CURVE

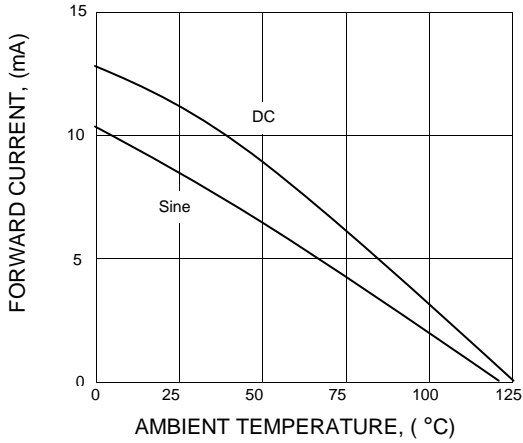


FIG.2 - CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS

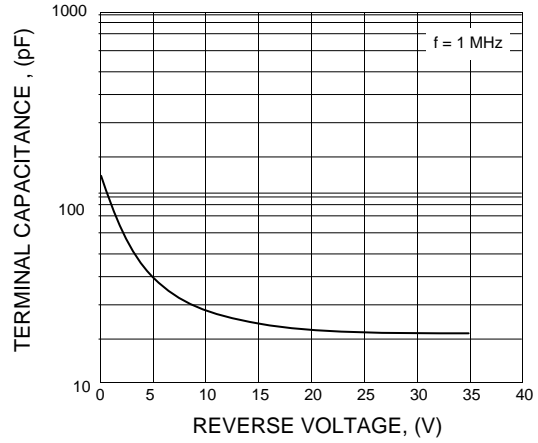


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

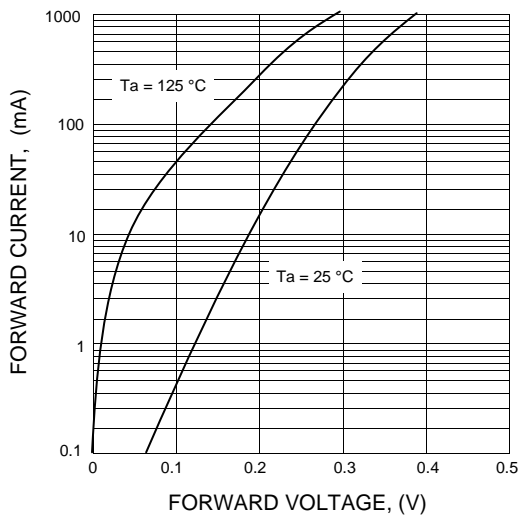


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

