LITEON LITE-ON SEMICONDUCTORS

SURFACE MOUNT SCHOTTKY BARRIER DIODE

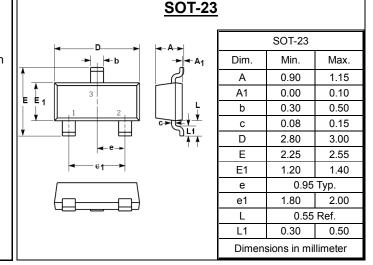
REVERSE VOLTAGE – 25 Volts FORWARD CURRENT – 1.0 Ampere

FEATURES

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection

MECHANICAL DATA

- Case: SOT-23 Plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture Sensitivity: Level 1 per J-STD-020D
- Lead Free in RoHS 2002/95/EC Compliant



Maximum Ratings & Thermal Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Symbol	RB491D	Units
Peak Reverse Voltage	V _{RM}	25	V
DC Blocking Voltage	V _R	20	V
Average Rectifier Forward Current	I _{F(AV)}	1	Α
Peak Forward Surge Current@t=8.3ms	I _{FSM}	3	А
Operating Temperature Range	TJ	125	°C
Storage Temperature Range	T _{STG}	-40~+125	°C

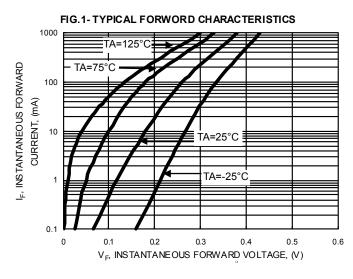
Electrical Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

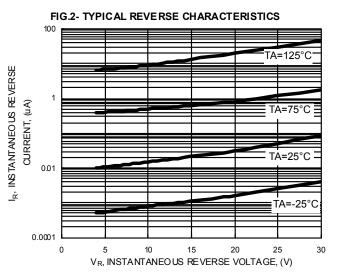
Characteristic	Test Condition	Symbol	RB491D	Unit
Maximum Forward Voltage	I _F = 1A	V _F	450	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 20V	I _R	200	uA
Typical Diode Capacitance	V _R =10V,f=1MHz	CD	80	pF
			REV. 2, Oct-2010, P	(SHR38

RB491D

RATING AND CHARACTERISTIC CURVES RB491D

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Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
RB491D	D2E	3 o o 1



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