# 

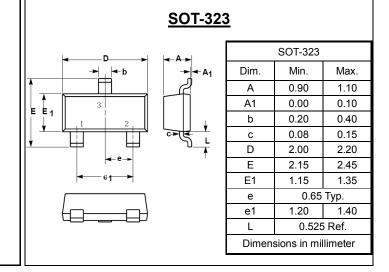
#### SURFACE MOUNT SCHOTTKY BARRIER DIODE

#### FEATURES

- Extremely Fast Switching Speed
- Low Forward Voltage
- Very Small Conduction Losses

#### **MECHANICAL DATA**

- Case: SOT-323 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



**REVERSE VOLTAGE – 20 Volts** 

FORWARD CURRENT – 0.7 Ampere

#### Maximum Ratings & Thermal Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic		Symbol	RB461F	Units
Non-Repetitive Peak Reverse Voltage		V <sub>RM</sub>	25	V
DC Blocking Voltage		V <sub>R</sub>	20	V
Average Rectified Output Current		Ι <sub>ο</sub>	700	mA
Non-Repetitive Peak Forward Surge Current	@t<10ms	I <sub>FSM</sub>	3	А
Power Dissipation		PD	150	mW
Operating Temperature Range		TJ	125	°C
Storage Temperature Range		T <sub>STG</sub>	-40~+125	°C

#### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Test Condition	Symbol	RB461F	Unit
I <sub>R</sub> = 200uA	$V_{BR}$	20	V
I <sub>F</sub> = 700mA	V <sub>F</sub>	490	mV
V <sub>R</sub> = 20V	I <sub>R</sub>	200	uA
	I <sub>F</sub> = 700mA	I <sub>F</sub> = 700mA V <sub>F</sub>	I <sub>F</sub> = 700mA V <sub>F</sub> 490

REV. 2, Oct-2010, KSHR35

## **RB461F**

#### RATING AND CHARACTERISTIC CURVES RB461F

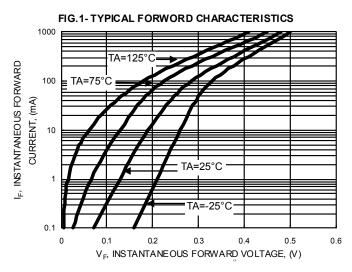
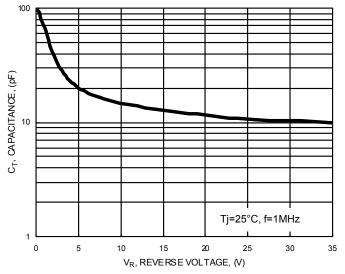
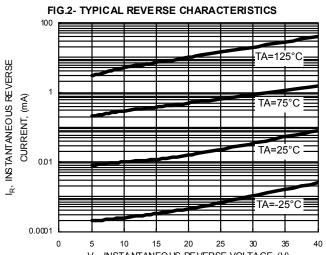


FIG.3- TYPICAL JUNCTION CAPACITANCE



**Device Marking :** 

Device P/N	Marking	Equivalent Circuit Diagram
RB461F	3B	3 <b>o i o</b> 1



V<sub>R</sub>, INSTANTANEOUS REVERSE VOLTAGE, (V)





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