# Shottky barrier diode RSX071VA-30

# Application

General rectification.

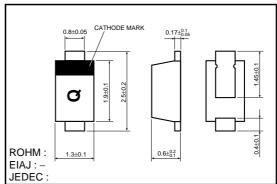
### Features

- 1) Small power mold type. (TUMD2 (1913))
- 2) High reliability.
- 3) Low V<sub>F</sub> / Low I<sub>R</sub>. (0.39V at 0.7A /  $40\mu A$  at 30V)

# ●Structure

Silicon Epitaxial Planer

# ●External dimensions (Unit : mm)



# ● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V <sub>RM</sub>	30	V
Reverse voltage (DC)	VR	30	V
Average rectified forward current	lo	0.7	А
Forward current surge peak (60Hz / 1cyc.)	Iгsм	5	А
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-40 to 150	°C

# ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V <sub>F1</sub>	-	0.39	0.42	V	I=0.7A
Reverse current	I <sub>R2</sub>	-	40	200	μΑ	V <sub>R</sub> =30V
Capacitance between terminals	Ст	_	30	_	pF	V <sub>R</sub> =10V, f=1MHz

### ●Electrical characteristic curves (Ta=25°C)

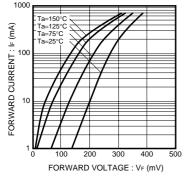


Fig.1 Forward Temperature Characteristics

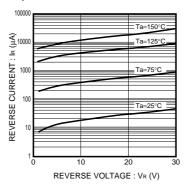


Fig.2 Reverse Temperature Characteristics

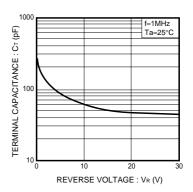
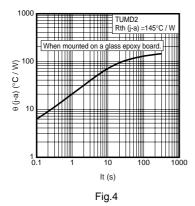
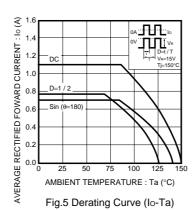
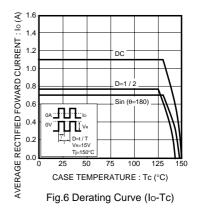
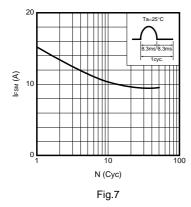


Fig.3 Capacitance Between Terminals Characteristics









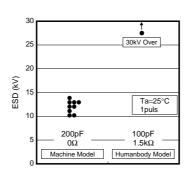


Fig.8 ESD

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