Shottky barrier diode RSX101VA-30

Application

General rectification.

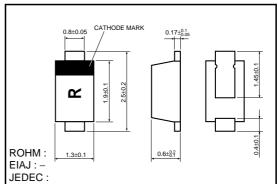
Features

- 1) Small power mold type. (TUMD2 (1913))
- 2) High reliability.
- 3) Low V_F / Low I_R. (0.43V at 1A / 40 μ 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 _{RM}	30	V
Reverse voltage (DC)	VR	30	V
Average rectified forward current	lo	1	А
Forward current surge peak (60Hz / 1cyc.)	IFSM	5	Α
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	VF	_	0.43	0.47	V	IF=1.0A
Reverse current	I _{R1}	_	15	40	μΑ	V _R =5V
	I _{R2}	-	40	200	μΑ	V _R =30V
Capacitance between terminals	Ст	_	30	_	pF	V _R =10V, f=1MHz

●Electrical characteristic curves (Ta=25°C)

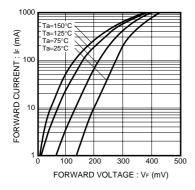


Fig.1 Forward Temperature Characteristics

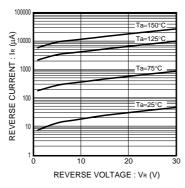


Fig.2 Reverse Temperature Characteristics

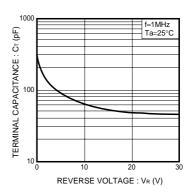
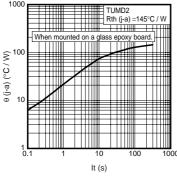


Fig.3 Capacitance Between Terminals Characteristics





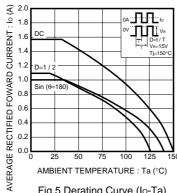
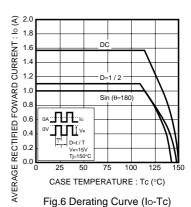
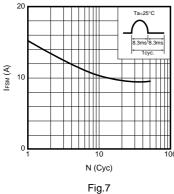


Fig.5 Derating Curve (Io-Ta)



30 20 ESD (kV) 200pF 0Ω 100pF 1.5kΩ Machine Model Humanbody Model

Fig.8 ESD resistance



Rev.A

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