Shottky barrier diode RSX051VA-30

Application

General rectification.

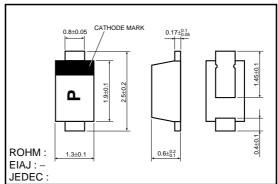
Features

- 1) Small power mold type. (TUMD2 (1913))
- 2) High reliability.
- 3) Low V_F / Low I_R. (0.35V 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 _{RM}	30	V
Reverse voltage (DC)	VR	30	V
Average rectified forward current	lo	0.5	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 _{F1}	-	0.35	0.39	V	I==0.5A
Reverse current	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)

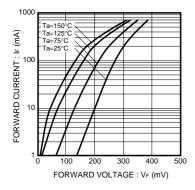


Fig.1 Forward Temperature Characteristics

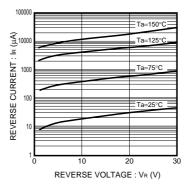


Fig.2 Reverse Temperature Characteristics

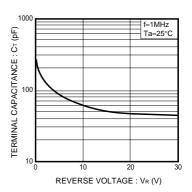
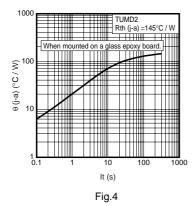
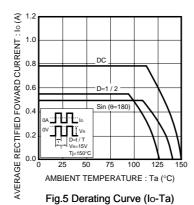
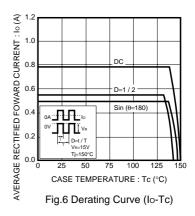
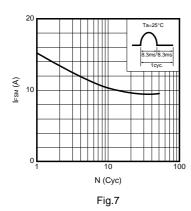


Fig.3 Capacitance Between Terminals Characteristics









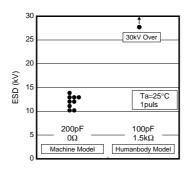


Fig.8 ESD

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