Shottky barrier diode RSX201L-30

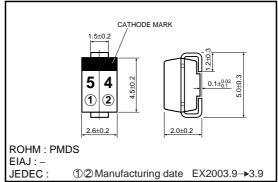
Application

High efficient shottky barrier diode. Rectifier for power supply units. Battery protection against reversal current

Features

- 1) Small mold type power diode (PMDS (4526))
- 2) High reliability (ESD resistance typ=22kV (machine model))
- 3) Low V_F / Low I_R $(V_F = 0.39 V \ at \ 2A / I_R = 50 \mu A \ at \ 30 V)$

●External dimensions (Unit : mm)



Structure

Silicon Epitaxial Planer

● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	VRM	30	V
Reverse voltage (DC)	VR	30	V
Average rectified forward current	lo	2	Α
Forward peak surge current (60Hz / 1cyc.)	IFSM	60	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	-	0.39	0.44	V	I _F =2A
Reverse current	IR	_	50	150	μΑ	V _R =30V
Capacitance between terminals	Ст	-	120	_	pF	V _R =10V, f=1MHz
Electro static discharge resistance	ESD	-	22	_	kV	C=200pF, R=0Ω 1pulse

●Electrical characteristic curves (Ta=25°C)

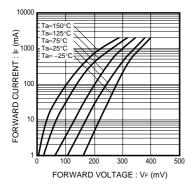


Fig.1 Forward Temperature Characteristics

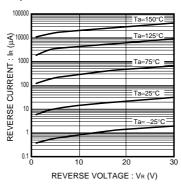


Fig.2 Reverse Temperature Characteristics

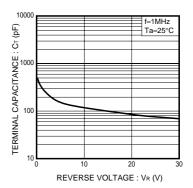


Fig.3 Capacitance Between **Terminals Characteristics**

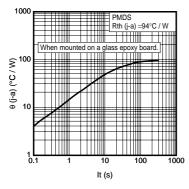


Fig.4 Thermal resistance

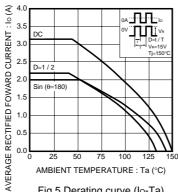
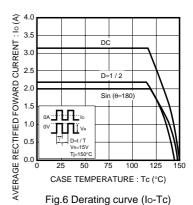


Fig.5 Derating curve (Io-Ta)



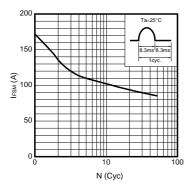


Fig.7 Forward peak surge current (Acctual data)

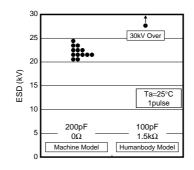


Fig.8 ESD resistance

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