Rectifier diode 1SR159-200

Applications

High frequency rectification. For switching power supply.

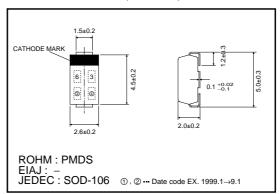
Features

- 1) Small surface mounting type. (PMDS)
- 2) Low VF. (VF=0.90V Typ. at 1A)
- 3) High speed. (t_{rr}=23ns Typ.)

Construction

Silicon epitaxial planar

●External dimensions (Units: mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Absolute peak reverse voltage	Vrsm	200	V
Peak reverse voltage	Vrm	200	V
Mean rectifying current*1	lo	1	А
Peak forward surge current*2	IFSM	20	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−55 ~+150	°C

^{*1} When mounted on an alumina PCB board $\,$ *2 60 Hz for 1 \bigcirc

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	VF	-	-	0.98	V	I==1.0A
Reverse current	IR	_	_	10	μА	V _R =200V
Reverse recovery time	trr	-	-	50	ns	I _F =I _R =100mA

●Electrical characteristic curves (Ta=25°C)

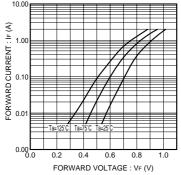


Fig.1 Forward characteristics

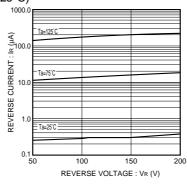


Fig.2 Reverse characteristics

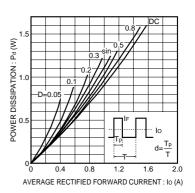


Fig.3 Power dissipation curves

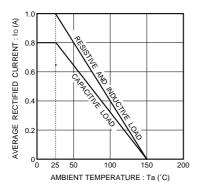


Fig.4 Derating curve

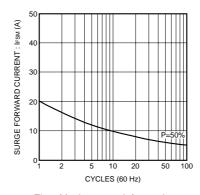


Fig.5 Maximum peak forward surge current characteristics

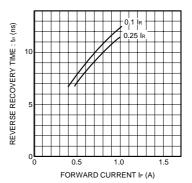


Fig.6 Reverse recovery time characteristics