Switching diode RF051VA1S

Applications

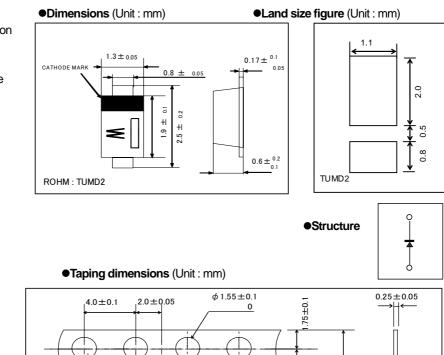
High frequency rectification

Features

- 1) Surface mounting type (TUMD2)
- 2) Very fast recovery.
- 3) High reliability.

Structure

Silicon epitaxial planar



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•Absolute maximum ratings (Ta=25°C)

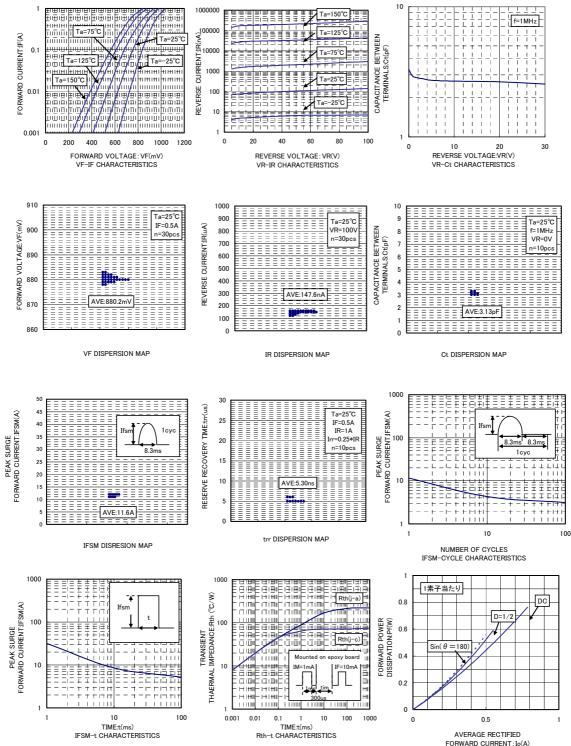
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V _{RM}	100	V
Reverse voltage (DC)	V _R	100	V
Average rectified forward current	lo	0.5	A
Forward current surge peak (60Hz-1cyc)	I _{FSM}	5	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	S

•Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _F	-	-	0.98	V	I _F =0.5A
Reverse current	I _R	-	-	10	μA	I _F =100V
Reverse recovery time	trr	-	-	25	nA	IF=0.5A, I _R =1.0A, Irr=0.25*IR

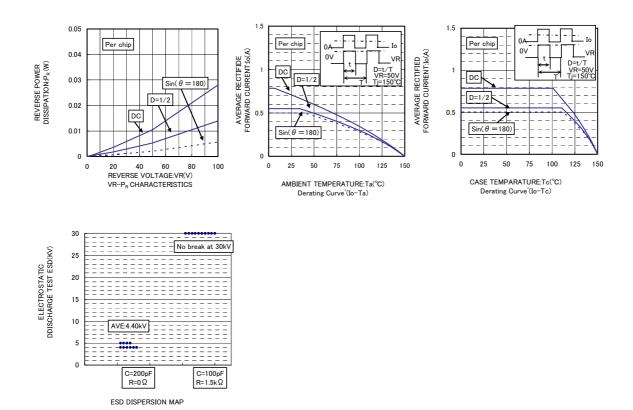
Diodes

•Electrical characteristic curves



FORWARD CURRENT: Io(A) Io-Pf CHARACTERISTICS

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