Schottky barrier diode

RB421D

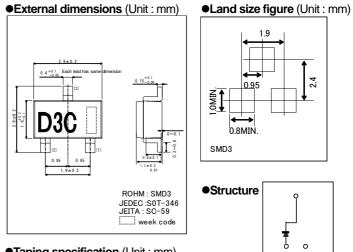
 Applications Low power rectification

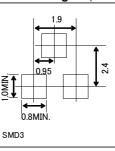
Features

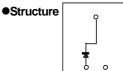
1) Small mold type. (SMD3) 2) Low IR. 3) High reliability.

Construction

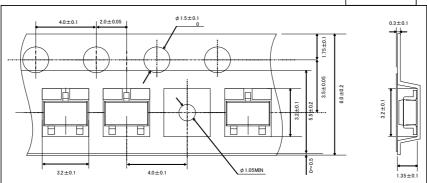
Silicon epitaxial planar







•Taping specification (Unit : mm)



•Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V _R	40	V
Average rectified forward current (*1)	lo	100	mA
Forward current surge peak (60Hz · 1cyc) (*1)	I _{FSM}	1	А
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40 to +125	C°

(*1) Rating of per diode

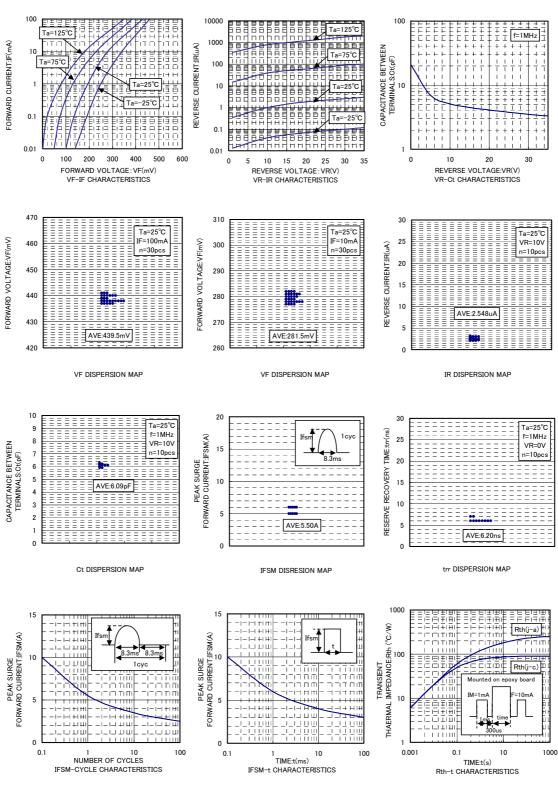
•Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _F 1	-	-	0.55	V	I _F =100mA
	V _F 2	-	•	0.34	V	I _F =10mA
Reverse current	I _R 1	-	-	30	μA	V _R =10V
Capacitance between terminals	Ct1	-	6	-	pF	V _R =10V , f=1MHz



1/3 Rev.A

Diodes



•Electrical characteristic curves (Ta = 25°C)

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0.1

0.05

0

0

 $Sin(\theta = 180)$

25

-

50

E

75

ΞΞ F

100

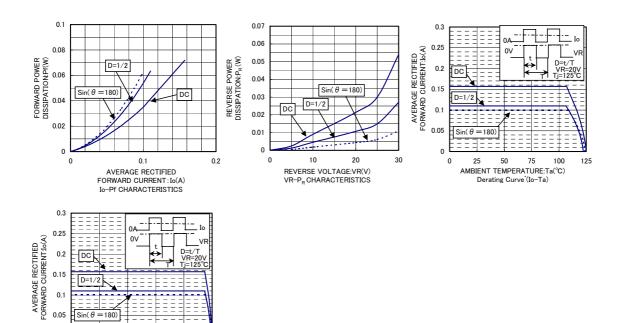
Ξ Ξ

CASE TEMPARATURE:Tc(°C) Derating Curve^{*}(Io-Tc)

Ξ

Ξ

125



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