# Shottky barrier diode

# **RB706F-40**

## Application

Low current rectification

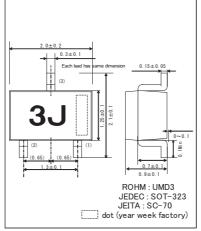
#### Features

- 1) Small mold type. (UMD3)
- 2) Low VF
- 3) High reliability.

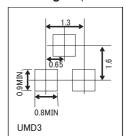
# ●Structure

Silicon epitaxial planer

## ●External dimensions (Unit : mm)



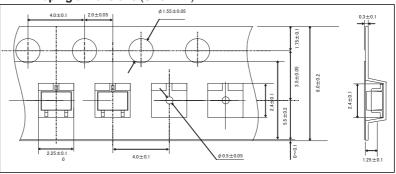
# ●Lead size figure (Unit : mm)



Structure



## ● Taping dimensions (Unit: mm)



#### ● Absolute maximum ratings (Ta=25°C)

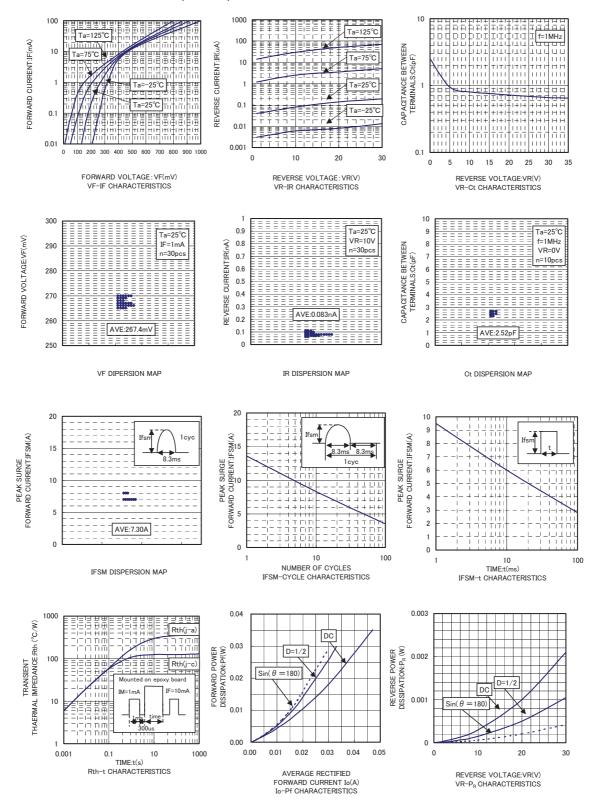
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Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	45	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	lo	30	mA
Forward current surge peak (60Hz · 1cyc)	I <sub>FSM</sub>	200	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40 to +125	°C

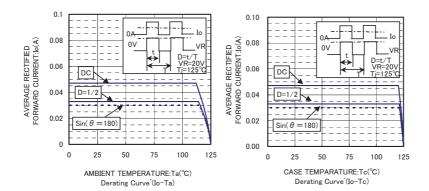
## ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	0.26	0.37	V	I <sub>F</sub> =1mA
Reverse current	I <sub>R</sub>	-	0.05	1	μA	V <sub>R</sub> =10V
Capacitance between terminals	Ct	-	2.0	-	pF	V <sub>R</sub> =1V , f=1MHz

Rev.A

#### ●Electrical characteristic curves (Ta=25°C)





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