# Super Fast Recovery Diode

Dimensions (Unit : mm)

RF601BM

**2D** 

1

2.3

ROHM: TO-252

RF601BM2D Data Sheet

#### Serise

Standard Fast Recovery

# Application

General rectification

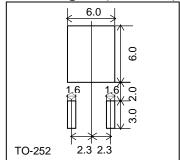
#### Features

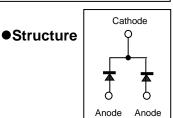
- 1) Cathode common dual type
- 2) Low switching loss
- 3) Low forward voltage

# JEITA : SC-63 1 : Manufacture Date

⊕ 0.25M C A B

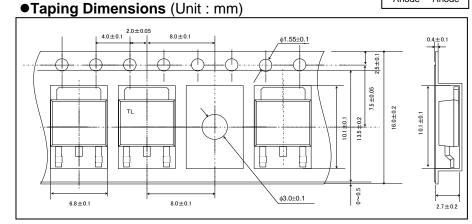
●Land Size Figure (Unit : mm)





## Construction

Silicon epitaxial planar type



0.5±0.1

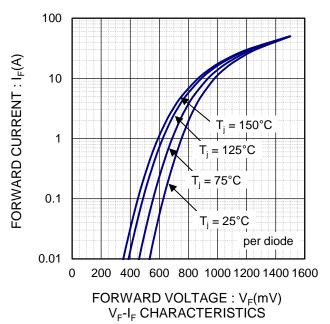
# ● Absolute Maximum Ratings (T<sub>c</sub>= 25°C)

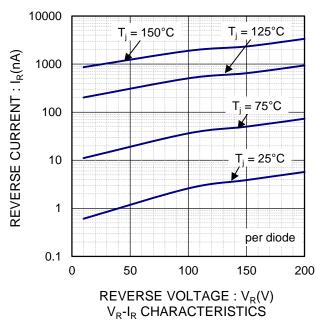
Parameter	Symbol	Conditions		Limits	Unit				
Repetitive peak reverse voltage	$V_{RM}$	Duty≦0.5		200	V				
Reverse voltage	$V_R$	Direct voltage	Direct voltage		V				
Average rectified foward current	Io	60Hz half sin wave , Resistive load 1/2Io per diode	T <sub>c</sub> =109°C	6	Α				
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave, Non-repetitive at Tj=25°C, per diode		60	Α				
Operating junction temperature	T <sub>j</sub>	-		150	°C				
Storage temperature	T <sub>stg</sub>	-		-55 to +150	°C				

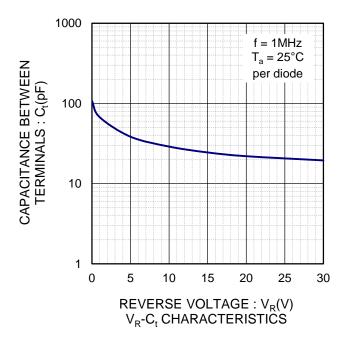
# ●Electrical Characteristics (T<sub>i</sub> = 25°C, per diode)

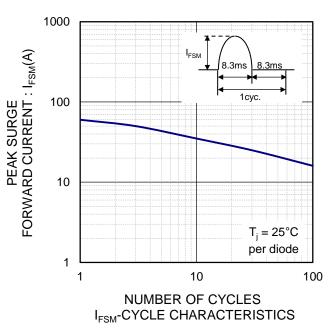
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	$V_{F}$	I <sub>F</sub> =3A	-	0.87	0.93	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =200V	-	0.05	10	μА
Reverse recovery time	trr	$I_F$ =0.5A, $I_R$ =1A, $Irr$ =0.25× $I_R$	-	14	25	ns
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case	-	-	6.0	°C/W

# **•**Electrical Characteristic Curves

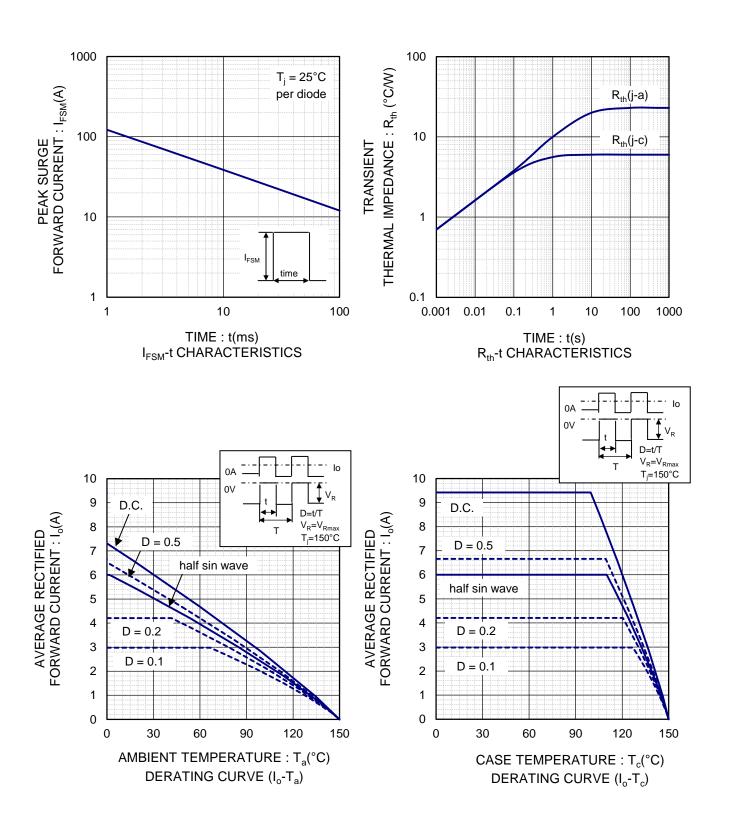




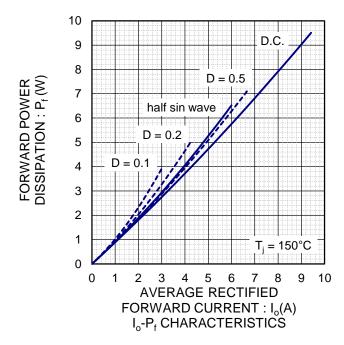




#### **•**Electrical Characteristic Curves



# **•**Electrical Characteristic Curves



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