

# Shottky barrier diode

## RSX071VA-30

### ●Application

General rectification.

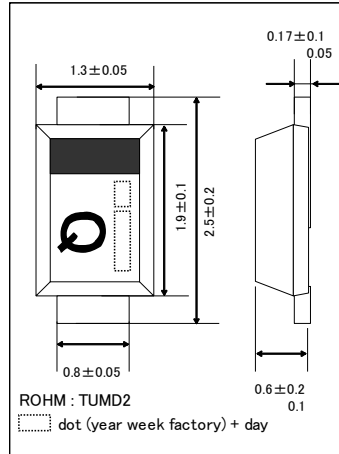
### ●Features

- 1) Small mold type. (TUMD2)
- 2) Low  $V_F$
- 3) High reliability.

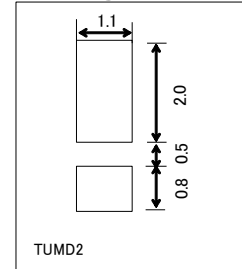
### ●Structure

Silicon epitaxial planar

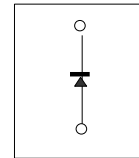
### ●External dimensions (Unit : mm)



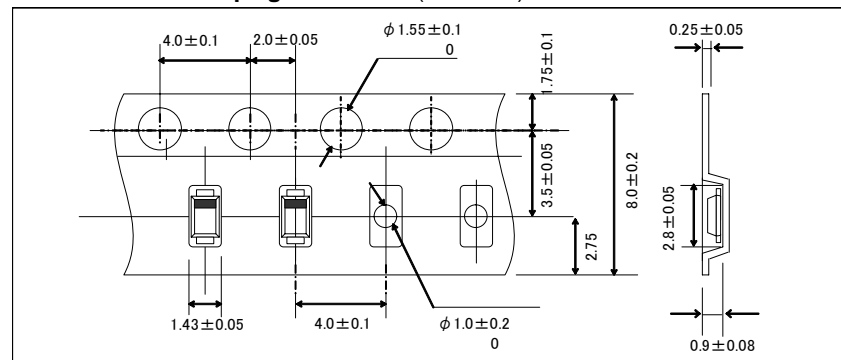
### ●Lead size figure (Unit : mm)



### ●Structure



### ●Taping dimensions (Unit : mm)



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

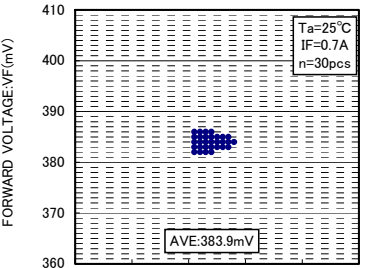
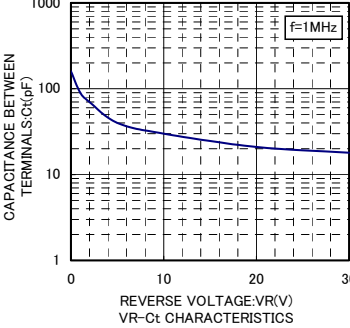
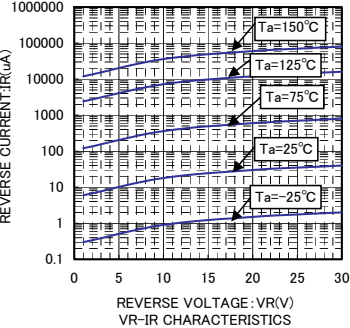
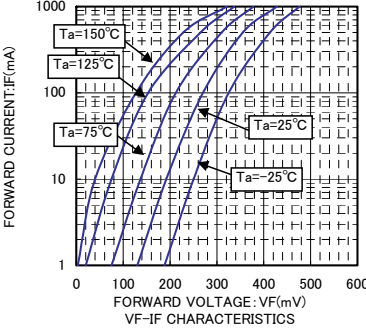
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current	$I_o$	700	mA
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	5	A
Junction temperature	$T_J$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

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

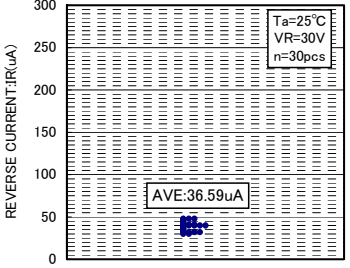
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.39	0.42	V	$I_F=700mA$
Reverse current	$I_R$	-	40	200	μA	$V_R=30V$

Diodes

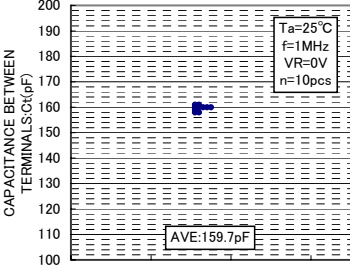
●Electrical characteristic curves (Ta=25°C)



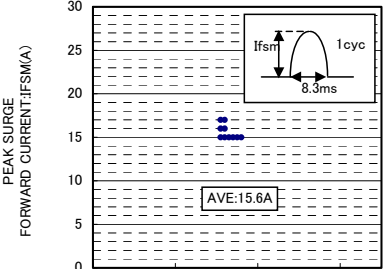
VF DISPERSION MAP



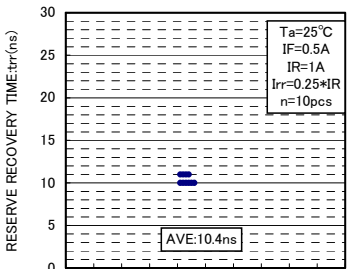
IR DISPERSION MAP



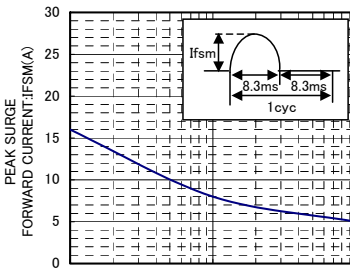
Ct DISPERSION MAP



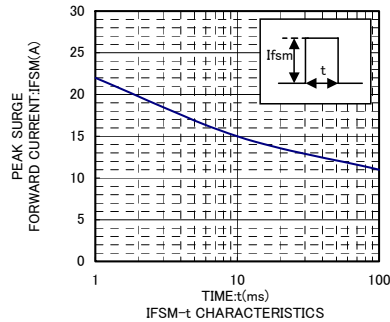
IFSM DISERSION MAP



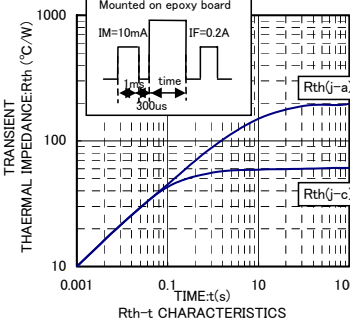
trr DISPERSION MAP



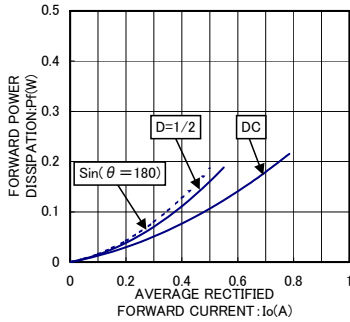
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS

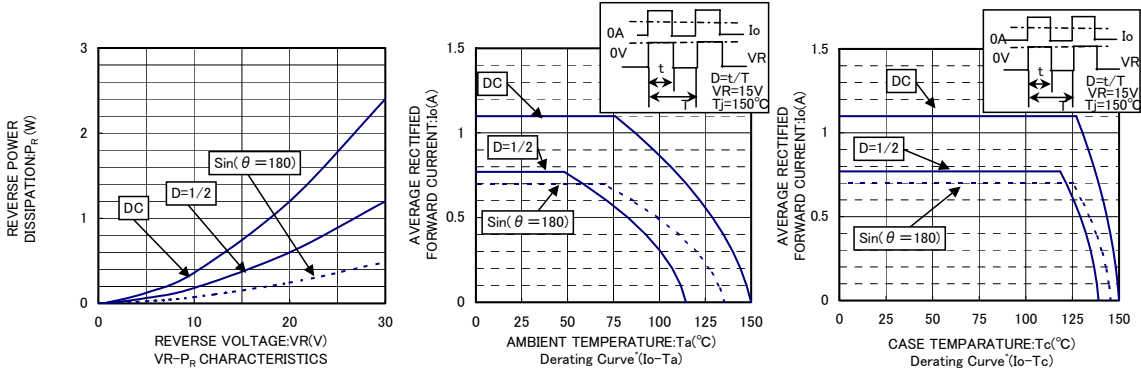


Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS

Diodes



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