Shottky barrier diode

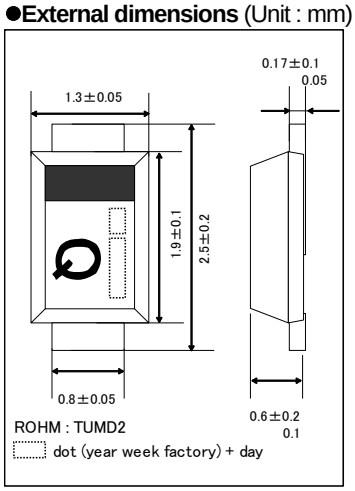
RSX071VA-30

●**Application**
General rectification.

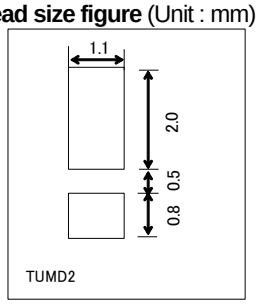
●**Features**
1) Small mold type. (TUMD2)
2) Low V_F
3) High reliability.

●**Structure**
Silicon epitaxial planar

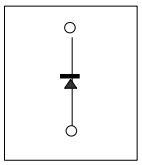
●**External dimensions** (Unit : mm)



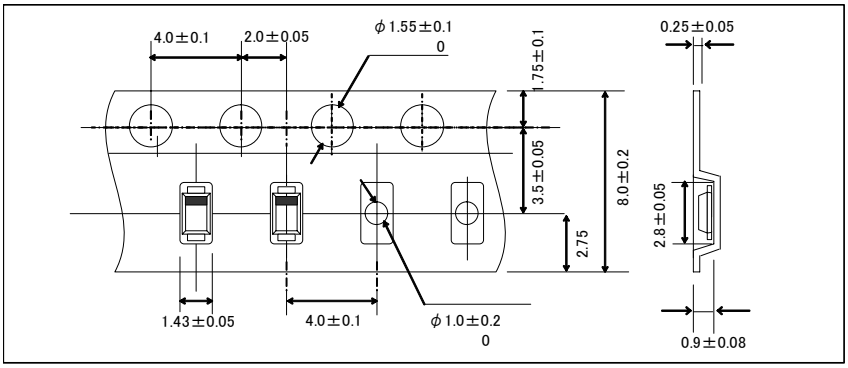
●**Lead size figure** (Unit : mm)



●**Structure**



●**Taping dimensions** (Unit : mm)



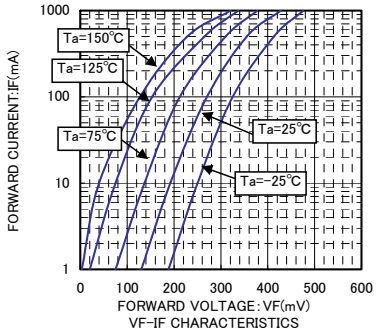
●**Absolute maximum ratings** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	Io	700	mA
Forward current surge peak (60Hz・1cyc)	I_{FSM}	5	A
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-40 to +150	℃

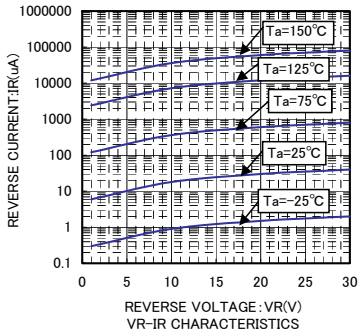
●**Electrical characteristics** (Ta=25°C)

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

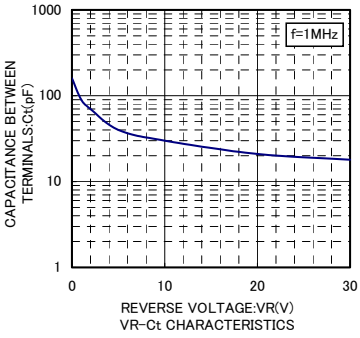
●**Electrical characteristic curves** (Ta=25°C)



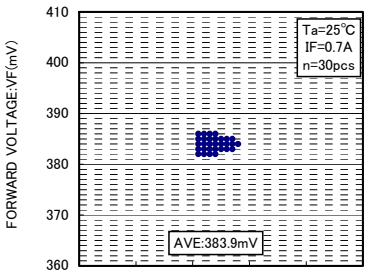
VF-IF CHARACTERISTICS



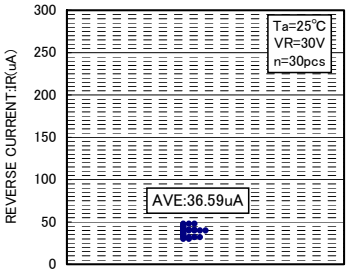
VR-IR CHARACTERISTICS



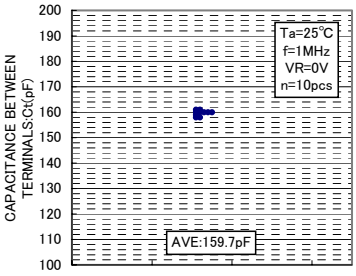
VR-Ct CHARACTERISTICS



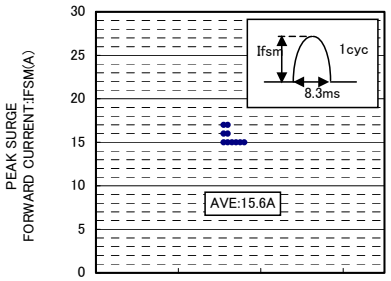
VF DISPERSION MAP



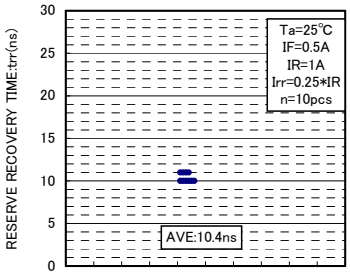
IR DISPERSION MAP



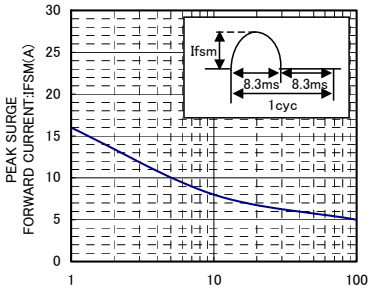
Ct DISPERSION MAP



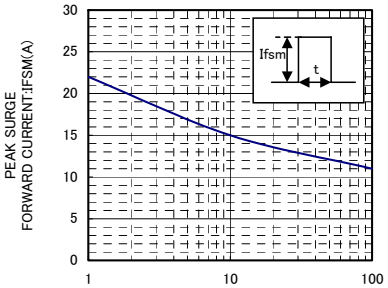
IFSM DISRESION MAP



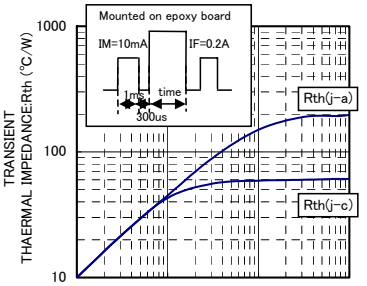
trr DISPERSION MAP



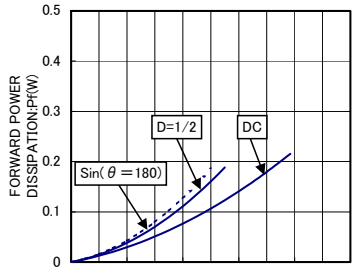
IFSM-CYCLE CHARACTERISTICS



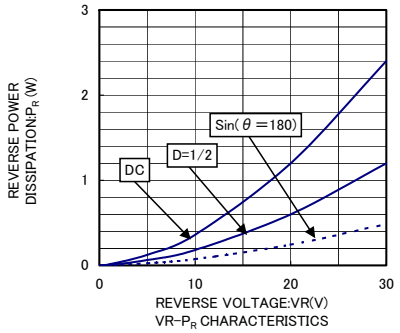
IFSM-t CHARACTERISTICS

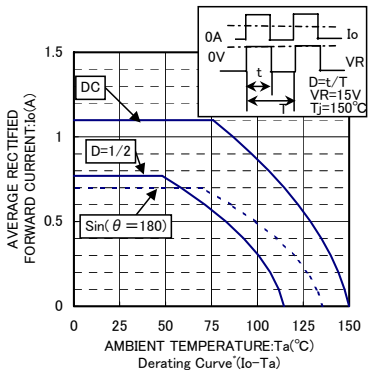


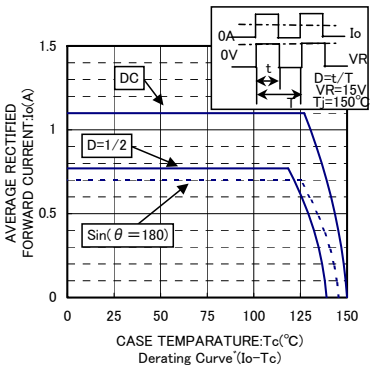
Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS


REVERSE POWER DISSIPATION:PR (W)
3
2
1
0
0
10
20
30
DC
D=1/2
Sin(θ=180)
REVERSE VOLTAGE:VR(V)
VR-PR CHARACTERISTICS


AVERAGE RECTIFIED FORWARD CURRENT:Io(A)
1.5
1
0.5
0
0
25
50
75
100
125
150
DC
D=1/2
Sin(θ=180)
0A
0V
Io
VR
t
T
D=t/T
VR=15V
Tj=150°C
AMBIENT TEMPERATURE:Ta(°C)
Derating Curve (Io-Ta)


AVERAGE RECTIFIED FORWARD CURRENT:Io(A)
1.5
1
0.5
0
0
25
50
75
100
125
150
DC
D=1/2
Sin(θ=180)
0A
0V
Io
VR
t
T
D=t/T
VR=15V
Tj=150°C
CASE TEMPARATURE:Tc(°C)
Derating Curve (Io-Tc)

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