Shottky barrier diode

RB495D

●**Application**

General rectification.

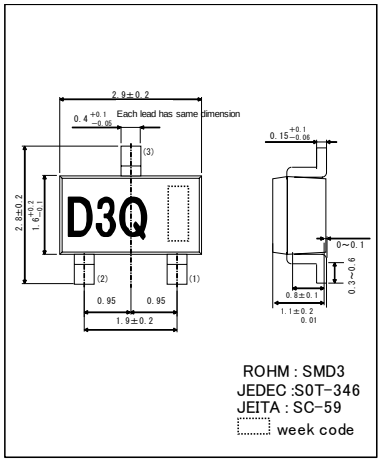
●**Features**

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

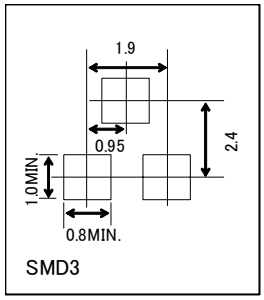
●**Structure**

Silicon epitaxial planar

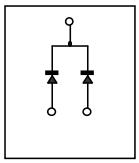
●**External dimensions** (Unit : mm)



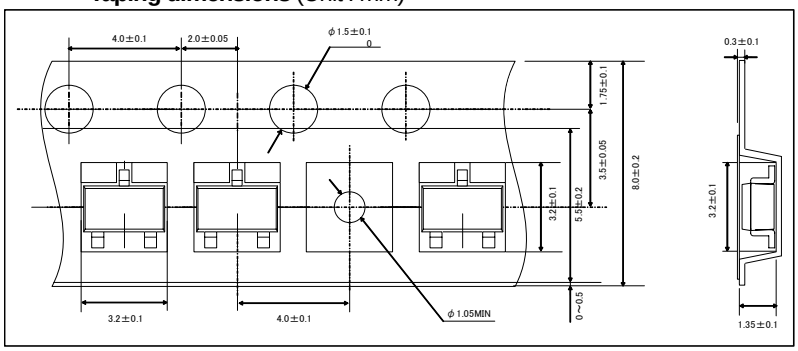
●**Lead size figure** (Unit : mm)



●**Structure**



●**Taping dimensions** (Unit : mm)



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

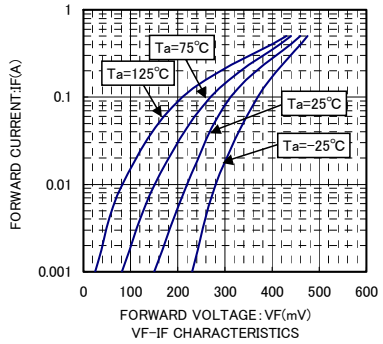
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	25	V
Average rectified forward current (*1)	Io	0.4	A
Forward current surge peak (60Hz・1cyc)	I_{FSM}	2	A
Junction temperature	Tj	125	℃
Storage temperature	Tstg	-40 to +125	℃

(*1)Rating of per diode : Io/2

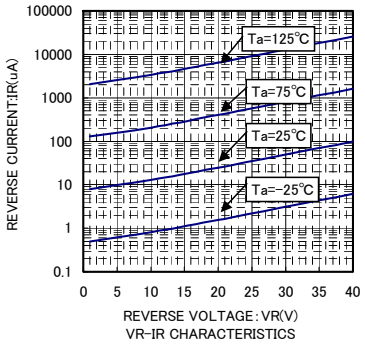
●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F1	-	-	0.30	V	I_F=10mA
	V_F2	-	-	0.50	V	I_F=200mA
Reverse current	I_R1	-	-	70	μA	V_R=25V

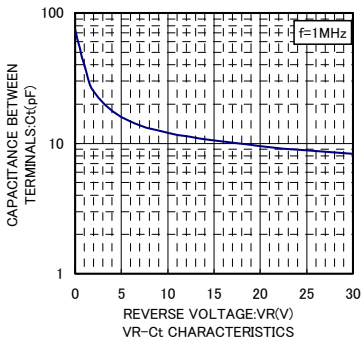
●**Electrical characteristic curves** (Ta=25°C)



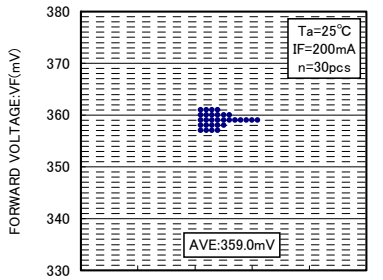
VF-IF CHARACTERISTICS



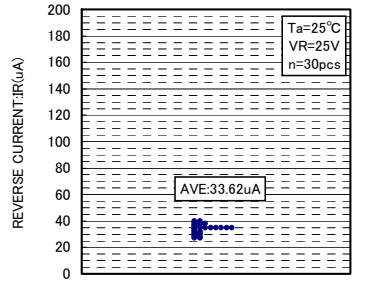
VR-IR CHARACTERISTICS



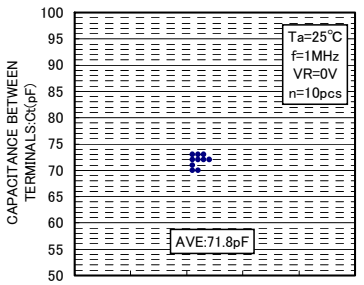
VR-Ct CHARACTERISTICS



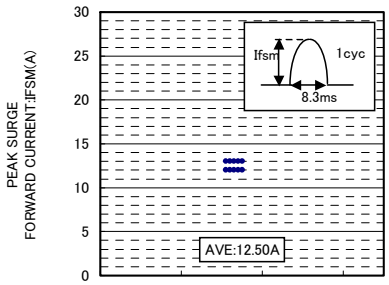
VF DISPERSION MAP



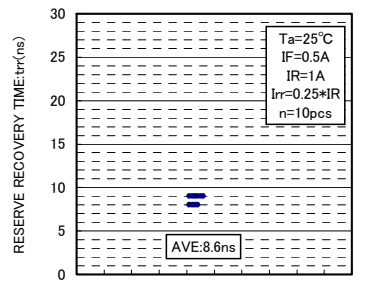
IR DISPERSION MAP



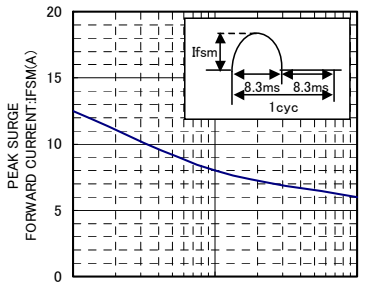
Ct DISPERSION MAP



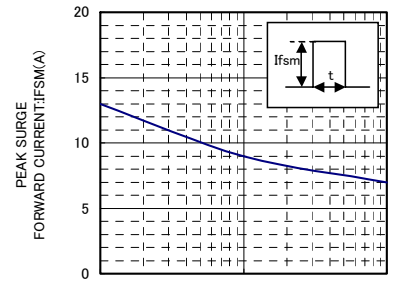
IFSM DISRESION MAP



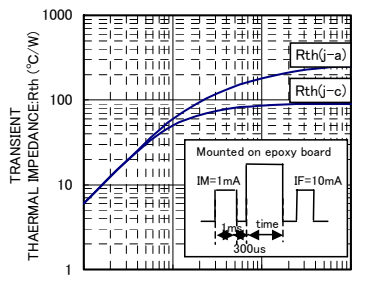
trr DISPERSION MAP



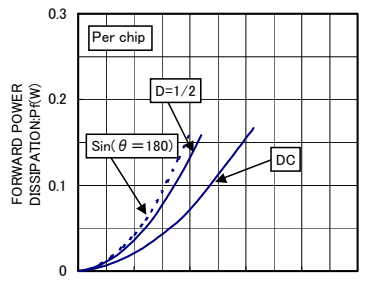
IFSM-CYCLE CHARACTERISTICS



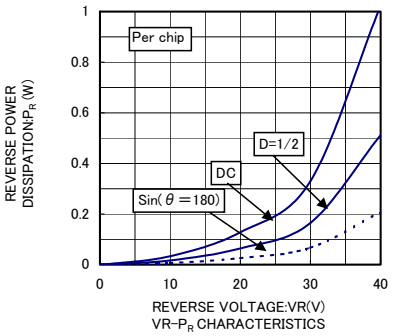
IFSM-t CHARACTERISTICS

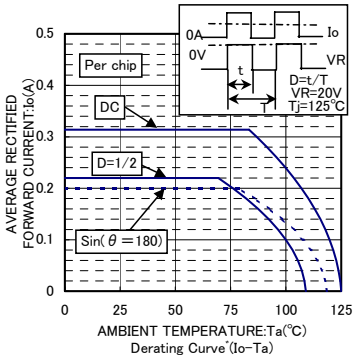


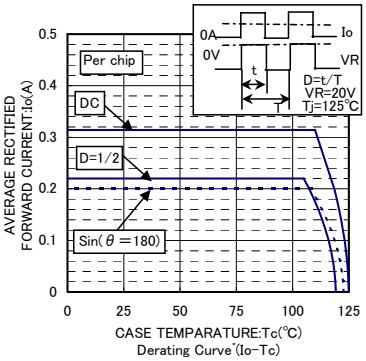
Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS


REVERSE POWER DISSIPATION:P_R(W)
Per chip
D=1/2
DC
Sin(θ=180)
REVERSE VOLTAGE:VR(V)
VR-P_R CHARACTERISTICS


AVERAGE RECTIFIED FORWARD CURRENT:Io(A)
Per chip
DC
D=1/2
Sin(θ=180)
0A
0V
Io
VR
t
T
D=t/T
VR=20V
Tj=125℃
AMBIENT TEMPERATURE:Ta(℃)
Derating Curve(Io-Ta)


AVERAGE RECTIFIED FORWARD CURRENT:Io(A)
Per chip
DC
D=1/2
Sin(θ=180)
0A
0V
Io
VR
t
T
D=t/T
VR=20V
Tj=125℃
CASE TEMPARATURE:Tc(℃)
Derating Curve(Io-Tc)

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