Schottky barrier diode

RB480Y

●**Applications**

Low current rectification

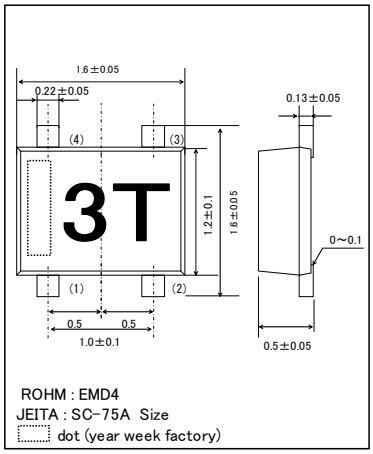
●**Features**

1) Ultra small mold type. (EMD4)
2) Low I_R
3) High reliability.

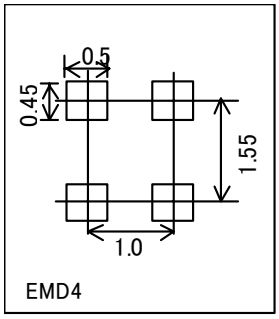
●**Construction**

Silicon epitaxial planar

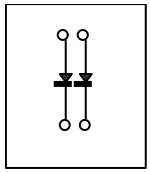
● **Dimensions** (Unit : mm)



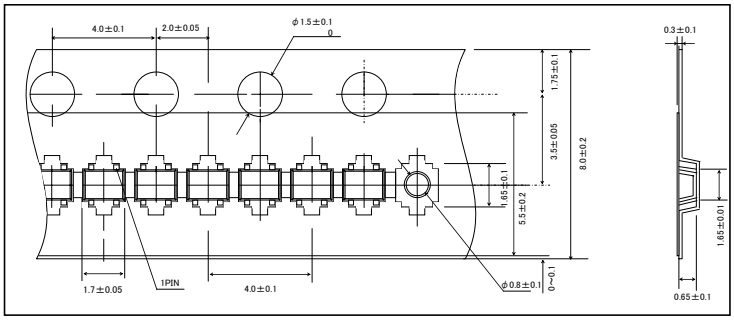
● **Land size figure** (Unit : mm)



●**Structure**



● **Taping specifications** (Unit : mm)



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

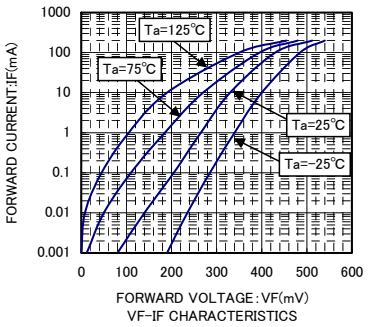
Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	30	V
Average rectified forward current (*1)	Io	100	mA
Forward current surge peak（60Hz・1cyc）(*1)	I_{FSM}	1	A
Junction temperature	Tj	125	℃
Storage temperature	Tstg	-40 to +125	℃

(*1) Rating of per diode

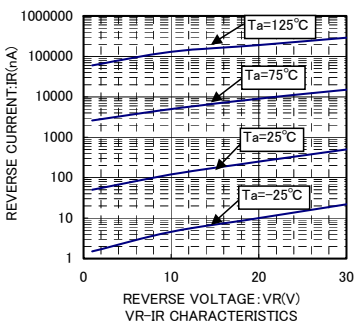
●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F1	-	-	0.38	V	I_F=1mA
	V_F2	-	-	0.43	V	I_F=10mA
	V_F3	-	-	0.53	V	I_F=100mA
Reverse current	I_R	-	-	1	μA	V_R=10V

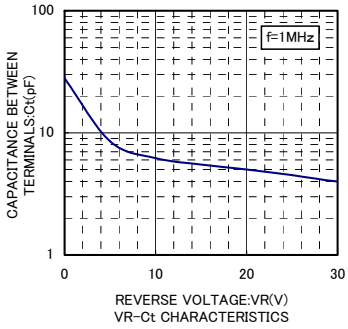
●**Electrical characteristic curves** (Ta=25°C)



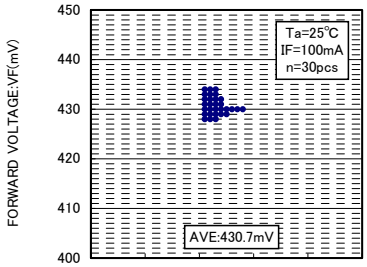
VF-IF CHARACTERISTICS



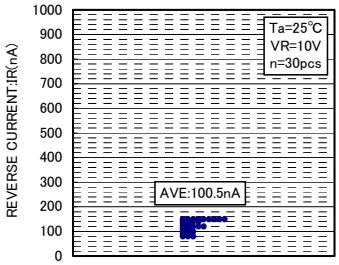
VR-IR CHARACTERISTICS



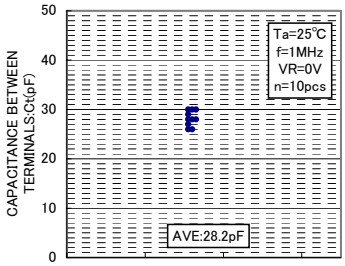
VR-Ct CHARACTERISTICS



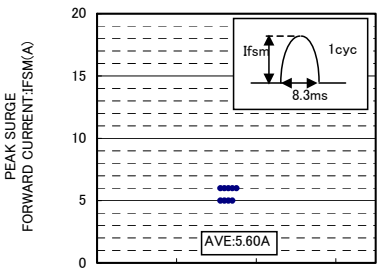
VF DISPERSION MAP



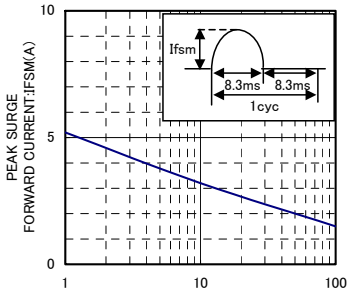
IR DISPERSION MAP



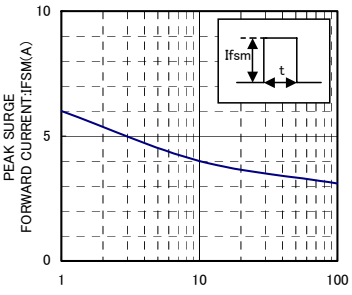
Ct DISPERSION MAP



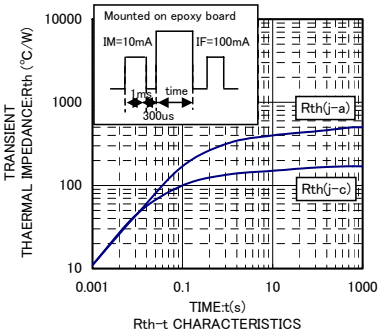
IFSM DISRESION MAP



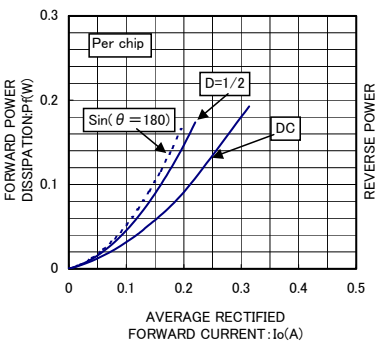
IFSM-CYCLE CHARACTERISTICS



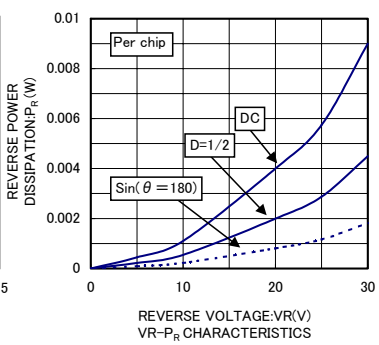
IFSM-t CHARACTERISTICS



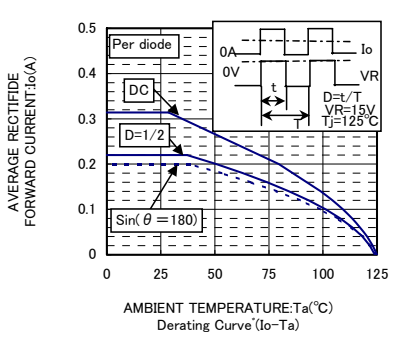
Rth-t CHARACTERISTICS

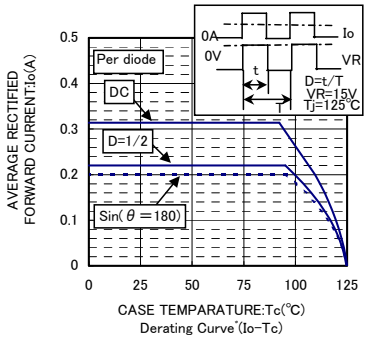


Io-Pf CHARACTERISTICS



VR-P_R CHARACTERISTICS


AVERAGE RECTIFIDE FORWARD CURRENT:Io(A)
0.5
0.4
0.3
0.2
0.1
0
Per diode
DC
D=1/2
Sin(θ=180)
0A
0V
Io
VR
t
T
D=t/T
VR=15V
Tj=125°C
0
25
50
75
100
125
AMBIENT TEMPERATURE:Ta(°C)
Derating Curve(Io-Ta)


AVERAGE RECTIFIED FORWARD CURRENT:Io(A)
0.5
0.4
0.3
0.2
0.1
0
Per diode
DC
D=1/2
Sin(θ=180)
0A
0V
Io
VR
t
T
D=t/T
VR=15V
Tj=125°C
0
25
50
75
100
125
CASE TEMPARATURE:Tc(°C)
Derating Curve(Io-Tc)

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