Schottky barrier diode

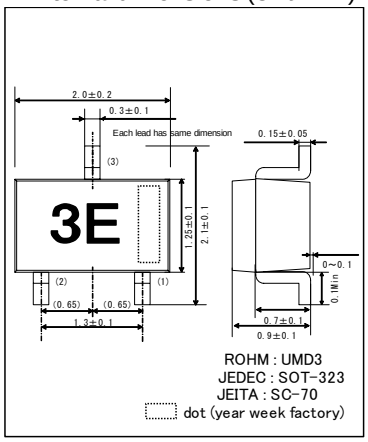
RB717F

●**Applications**
Low current rectification

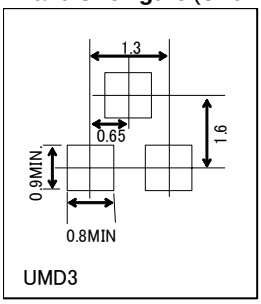
●**Features**
1) Small mold type. (UMD3)
2) Low V_F
3) High reliability.

●**Construction**
Silicon epitaxial planar

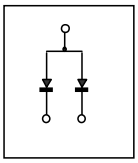
● **External dimensions** (Unit : mm)



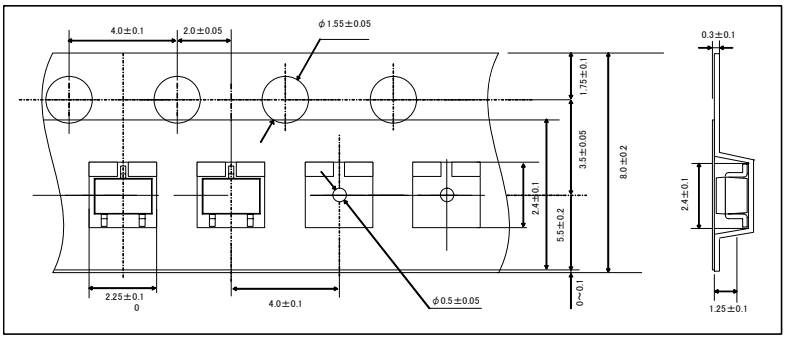
● **Land size figure** (Unit : mm)



●**Structure**



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



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

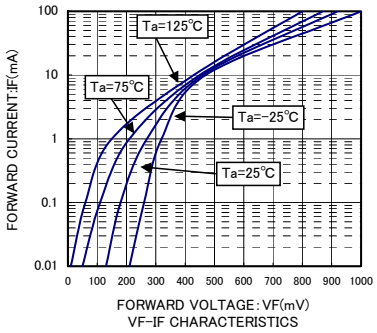
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reevrse voltage (DC)	V_R	40	V
Average rectifoed forward current (*1)	Io	30	mA
Forward current surge peak (60Hz・1cyc) (*1)	I_{FSM}	200	mA
Junction temperature	Tj	125	℃
Storage temperature	Tstg	-40 to +125	℃

(*1) Rating of per diode

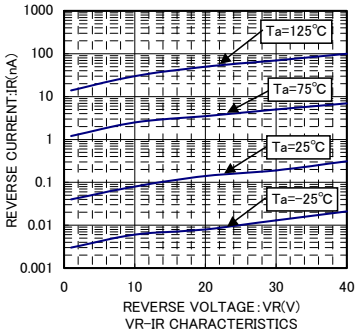
●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.37	V	I_F=1mA
Reverse current	I_R	-	-	1	μA	V_R=10V
Capacitance between terminals	Ct	-	2.0	-	pF	V_R=1V,f=1MHz

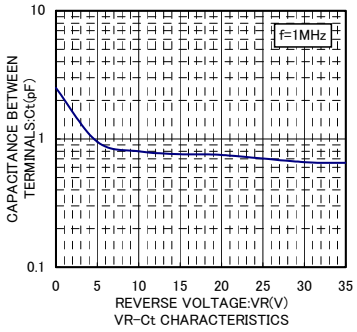
●**Electrical characteristic curves** (Ta=25°C)



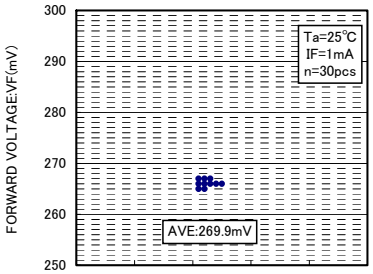
VF-IF CHARACTERISTICS



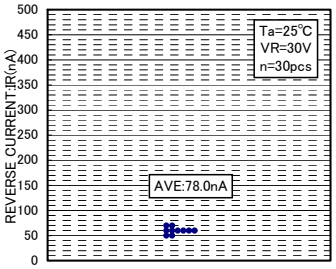
VR-IR CHARACTERISTICS



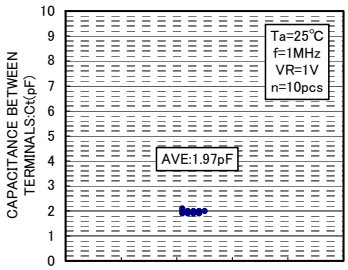
VR-Ct CHARACTERISTICS



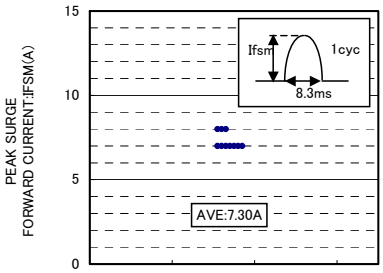
VF DISPERSION MAP



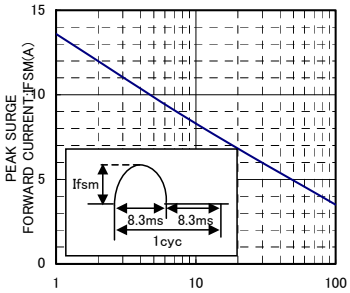
IR DISPERSION MAP



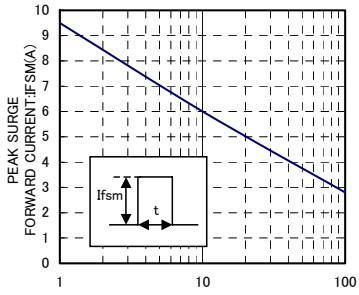
Ct DISPERSION MAP



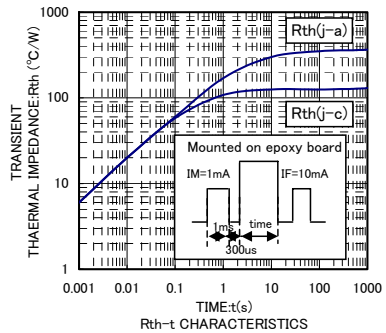
IFSM DISRESION MAP



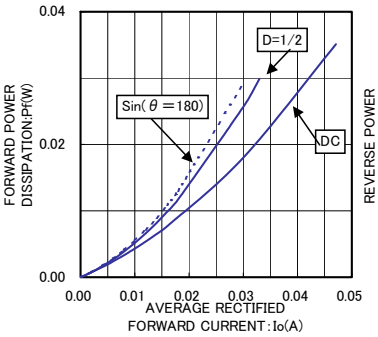
IFSM-CYCLE CHARACTERISTICS



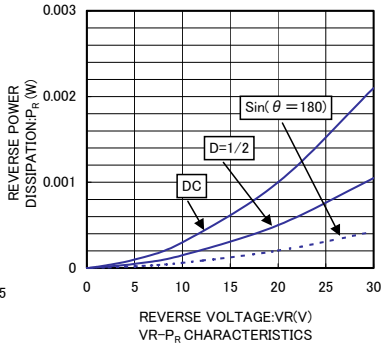
IFSM-t CHARACTERISTICS



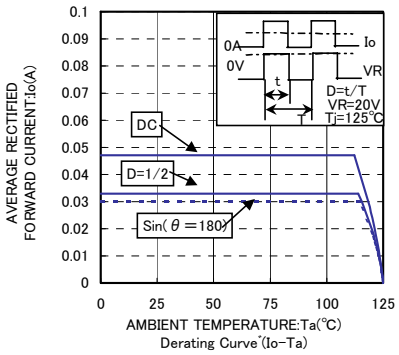
Rth-t CHARACTERISTICS

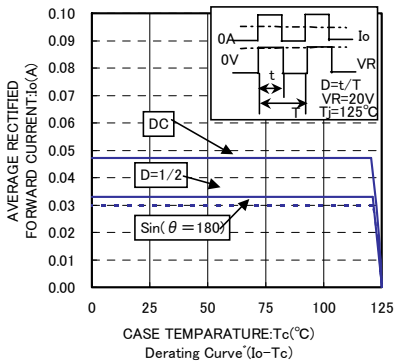


Io-Pf CHARACTERISTICS



VR-P_R CHARACTERISTICS


AVERAGE RECTIFIED FORWARD CURRENT:Io(A)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0A
0V
Io
VR
t
T
D=t/T
VR=20V
Tj=125℃
DC
D=1/2
Sin(θ=180)
0
25
50
75
100
125
AMBIENT TEMPERATURE:Ta(℃)
Derating Curve(Io-Ta)


AVERAGE RECTIFIED FORWARD CURRENT:Io(A)
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0A
0V
Io
VR
t
T
D=t/T
VR=20V
Tj=125℃
DC
D=1/2
Sin(θ=180)
0
25
50
75
100
125
CASE TEMPARATURE:Tc(℃)
Derating Curve(Io-Tc)

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