

# Schottky barrier diode

## RB717F

### ●Applications

Low current rectification

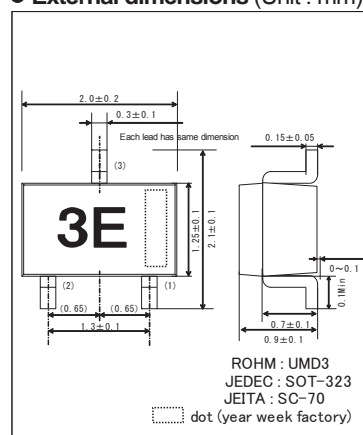
### ●Features

- 1) Small mold type. (UMD3)
- 2) Low  $V_F$
- 3) High reliability.

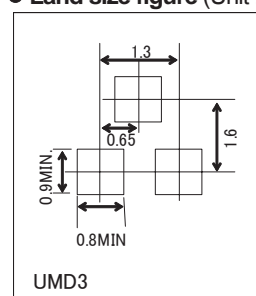
### ●Construction

Silicon epitaxial planar

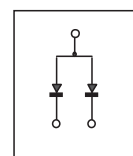
### ● External dimensions (Unit : mm)



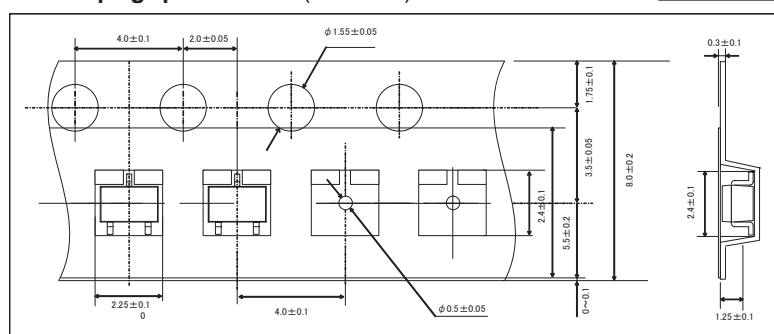
### ● Land size figure (Unit : mm)



### ●Structure



### ● Taping specifications (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current (*1)	$I_o$	30	mA
Forward current surge peak (60Hz·1cyc) (*1)	$I_{FSM}$	200	mA
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

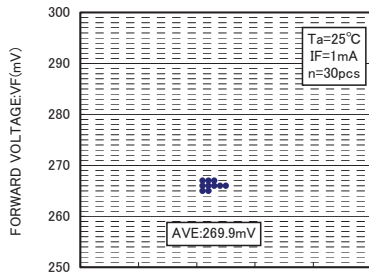
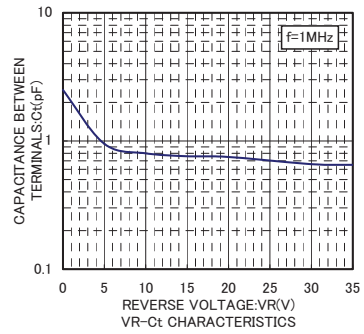
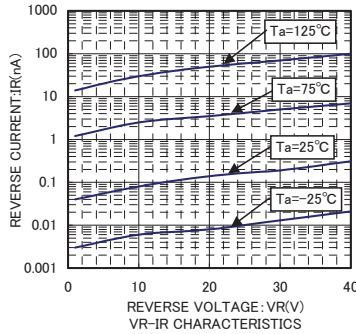
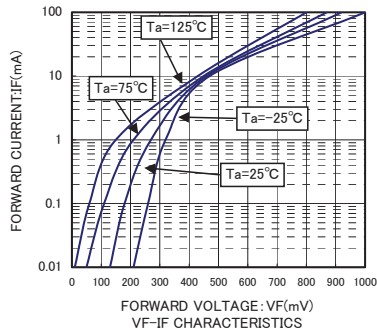
(\*1) Rating of per diode

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

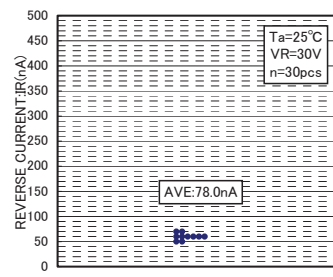
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.37	V	$I_F=1mA$
Reverse current	$I_R$	-	-	1	$\mu A$	$V_R=10V$
Capacitance between terminals	$C_t$	-	2.0	-	pF	$V_R=1V, f=1MHz$

Diodes

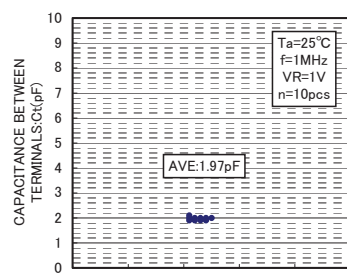
●Electrical characteristic curves (Ta=25°C)



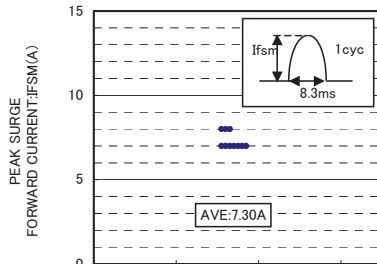
VF DISPERSION MAP



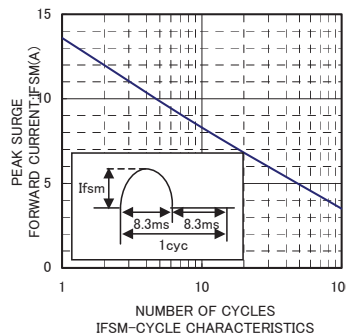
IR DISPERSION MAP



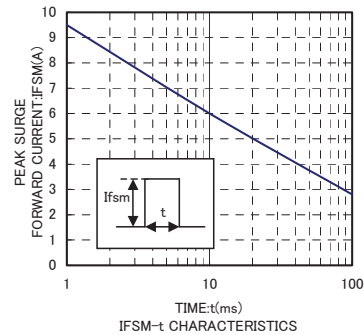
Ct DISPERSION MAP



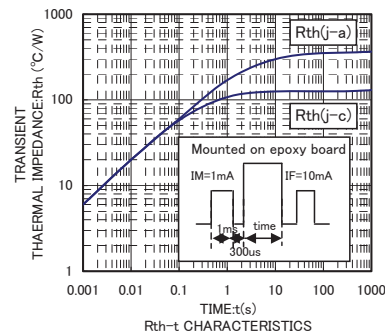
IFSM DISERSION MAP



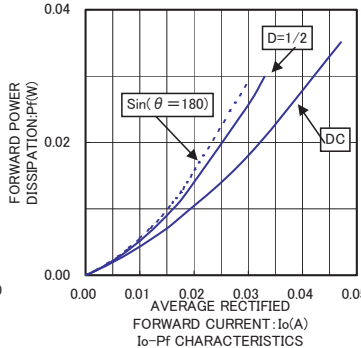
IFSM-CYCLE CHARACTERISTICS



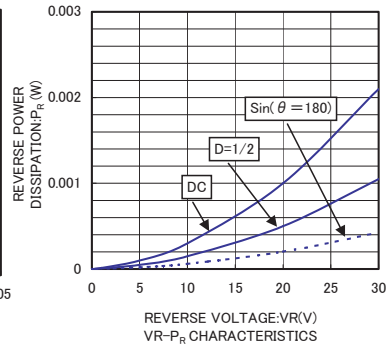
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS

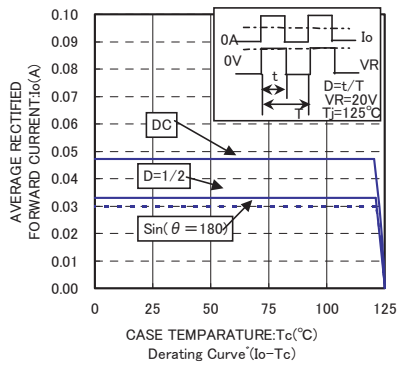
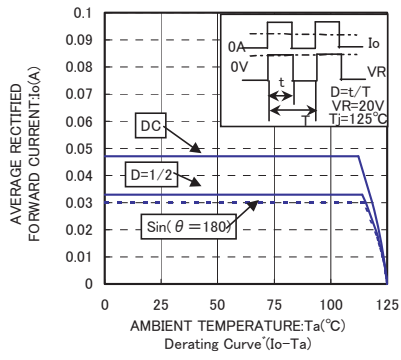


Io-Pf CHARACTERISTICS



VR-Pr CHARACTERISTICS

Diodes



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