

Shottky barrier diode

RB715F

●Application

Low current rectification

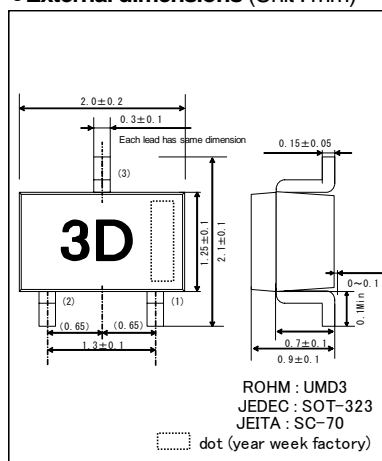
●Features

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

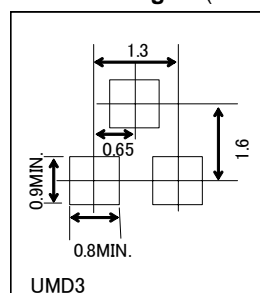
●Construction

Silicon epitaxial planar

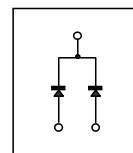
●External dimensions (Unit : mm)



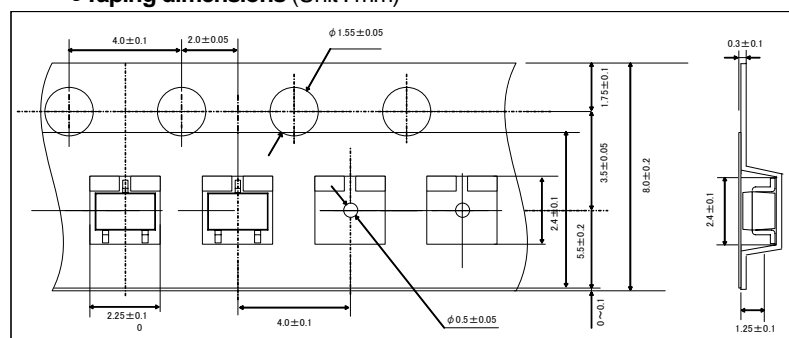
●Lead size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings ($T_a=25^\circ\text{C}$)

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

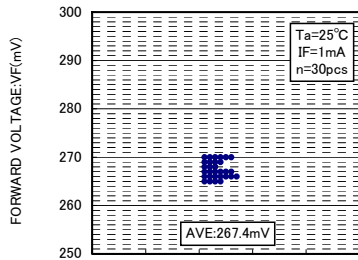
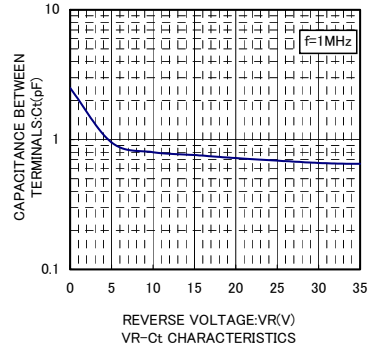
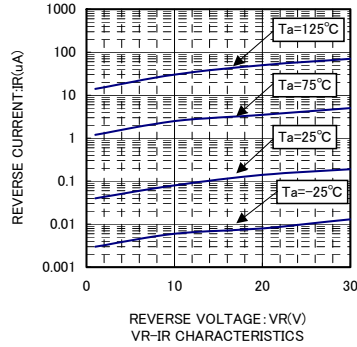
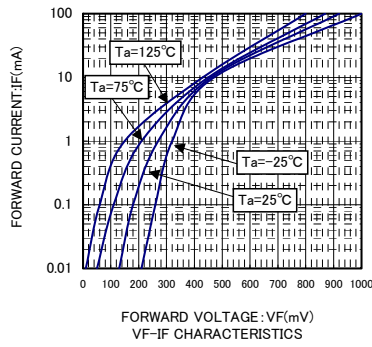
(*1)Rating of per diode

●Electrical characteristics ($T_a=25^\circ\text{C}$)

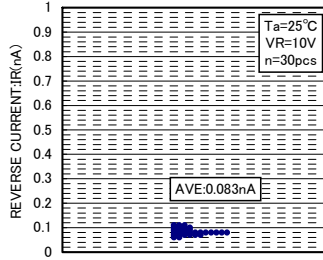
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.37	V	$I_F=1\text{mA}$
Reverse current	I_R	-	-	1	μA	$V_R=10\text{V}$
Capacitance between terminals	C_t	-	2.0	-	pF	$V_R=1\text{V}$ $f=1\text{MHz}$

Diodes

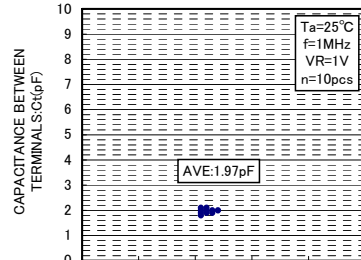
●Electrical characteristic curves (Ta=25°C)



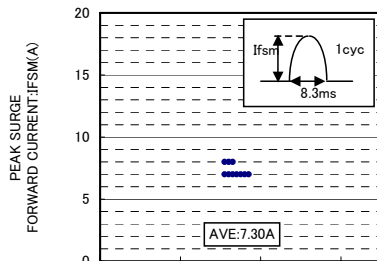
VF DISPERSION MAP



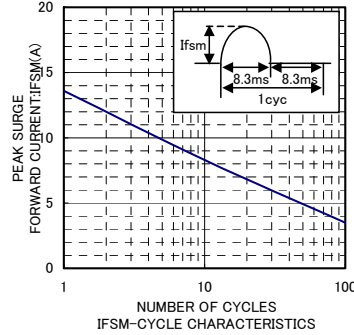
IR DISPERSION MAP



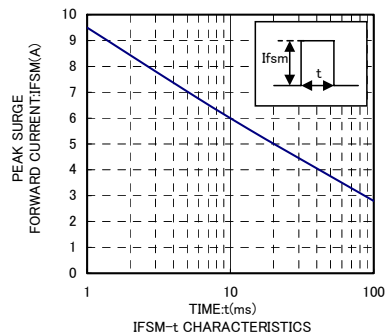
Ct DISPERSION MAP



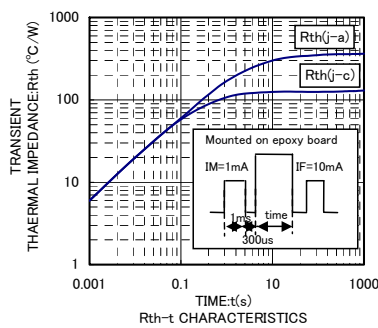
IFSM DISPERSION MAP



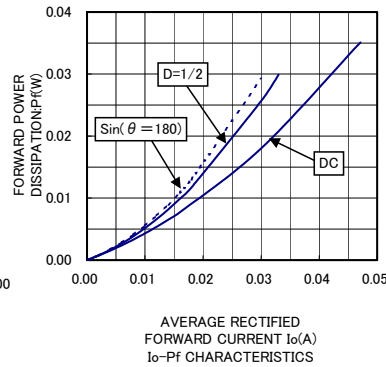
IFSM-CYCLE CHARACTERISTICS



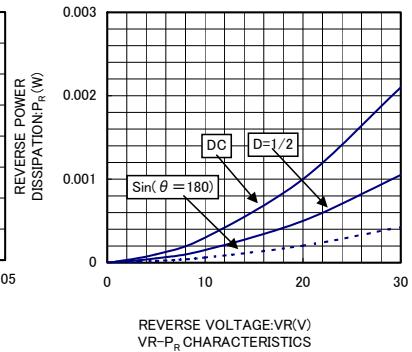
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS

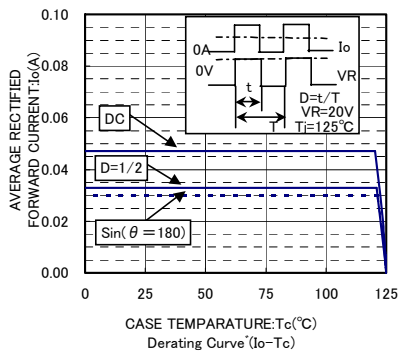
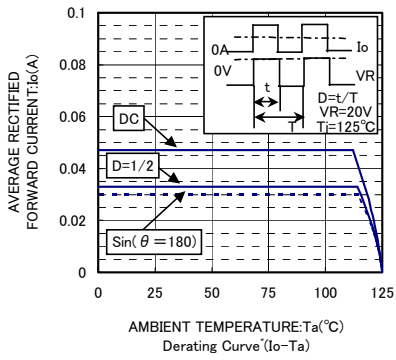


Io-Pr CHARACTERISTICS



VR-Pr CHARACTERISTICS

Diodes



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