# Schottky Barrier Diode

RB450F Datasheet

### Application

Low power rectification

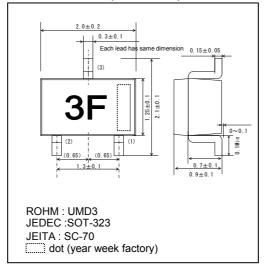
#### Features

- 1) Small mold type. (UMD3)
- 2) Low I<sub>R</sub>
- 3) High reliability

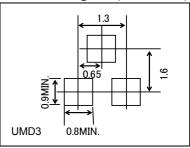
#### Construction

Silicon epitaxial planar

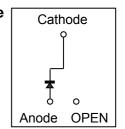
#### ●Dimensions (Unit: mm)



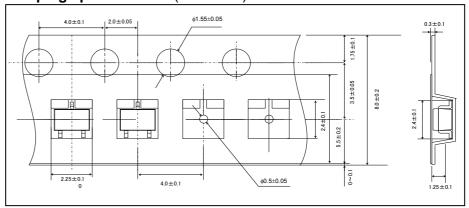
#### ●Land size figure (Unit : mm)



●Structure



● Taping specifications (Unit: mm)

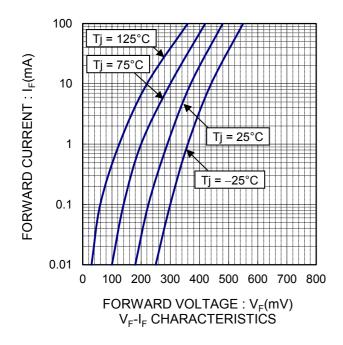


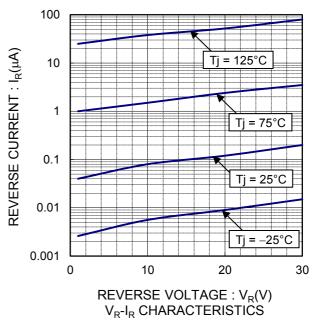
#### ● Absolute maximum ratings (Ta= 25°C)

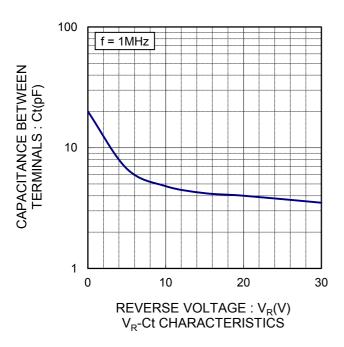
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	45	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	lo	100	mA
Forward current surge peak (60Hz·1cyc)	I <sub>FSM</sub>	1	Α
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40 to +125	°C

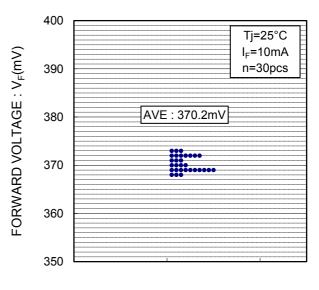
#### ●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	-	0.45	V	I <sub>F</sub> =10mA
Reverse current	I <sub>R</sub>	-	-	1	μΑ	V <sub>R</sub> =10V
Capacitance between terminals	Ct	-	6.0	-	pF	V <sub>R</sub> =10V, f=1MHz

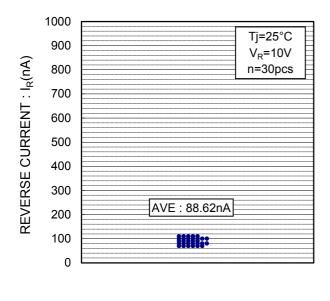


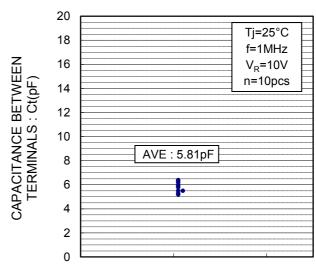






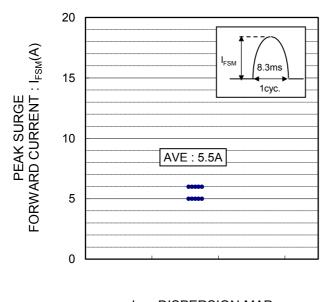
V<sub>F</sub> DISPERSION MAP



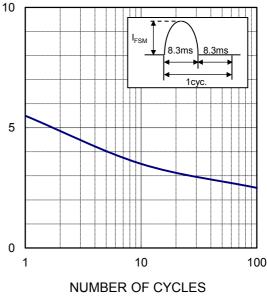


I<sub>R</sub> DISPERSION MAP

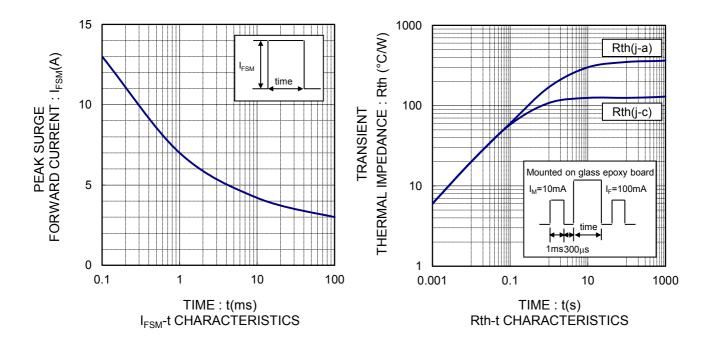
Ct DISPERSION MAP

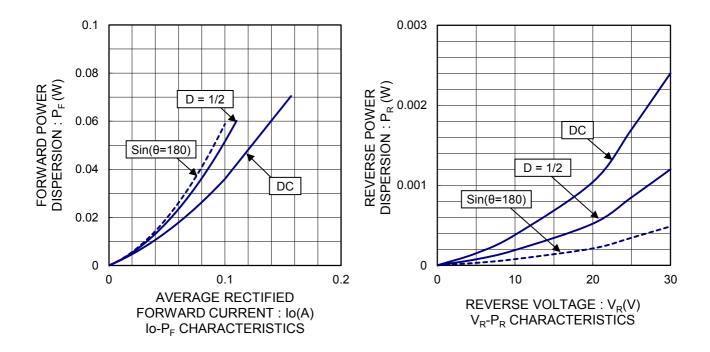


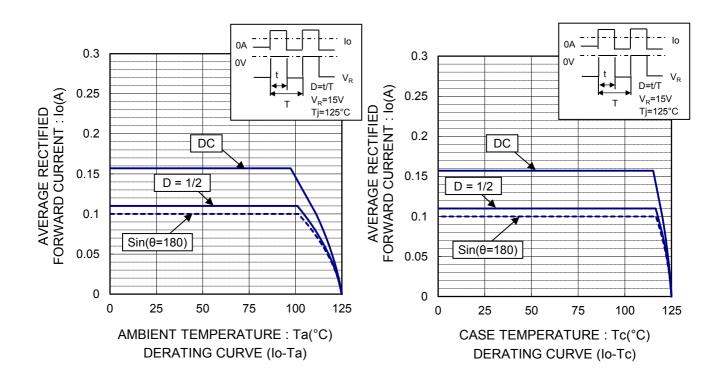
PEAK SURGE FORWARD CURRENT : I<sub>FSM</sub>(A)



 $I_{\mathsf{FSM}}$  DISPERSION MAP







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