

### ●Application

Low power rectification

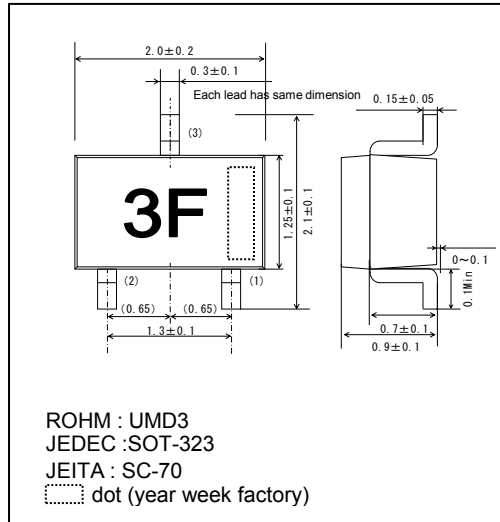
### ●Features

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

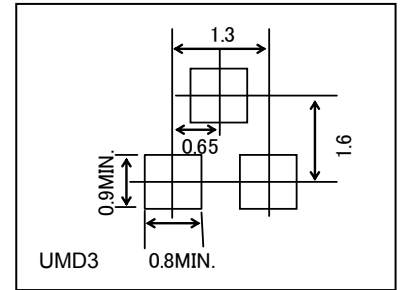
### ●Construction

Silicon epitaxial planar

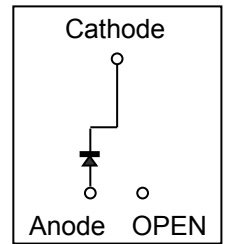
### ●Dimensions (Unit : mm)



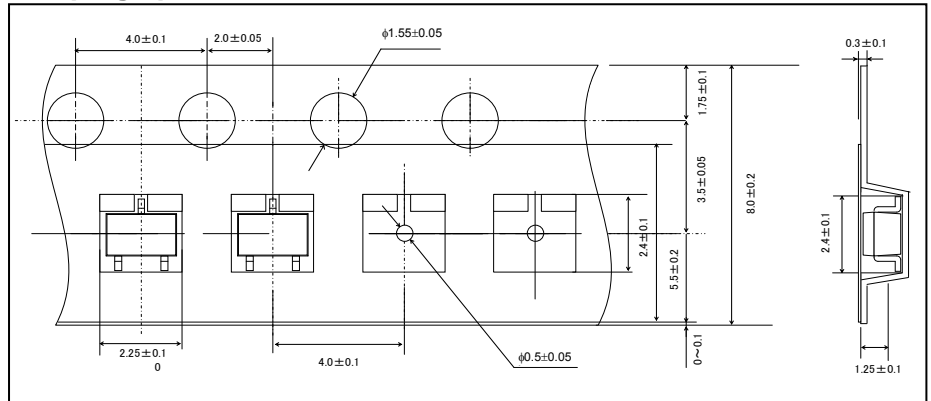
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



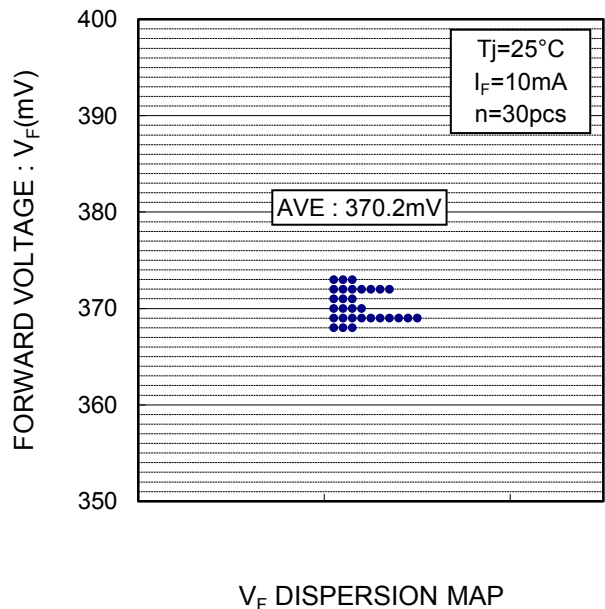
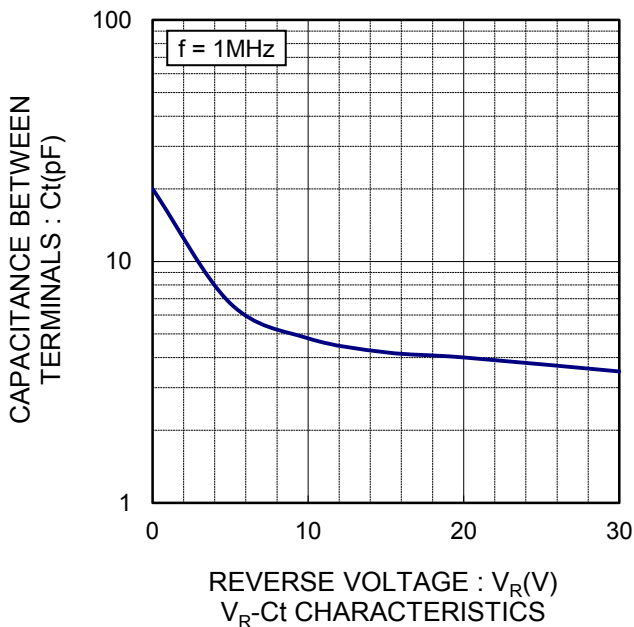
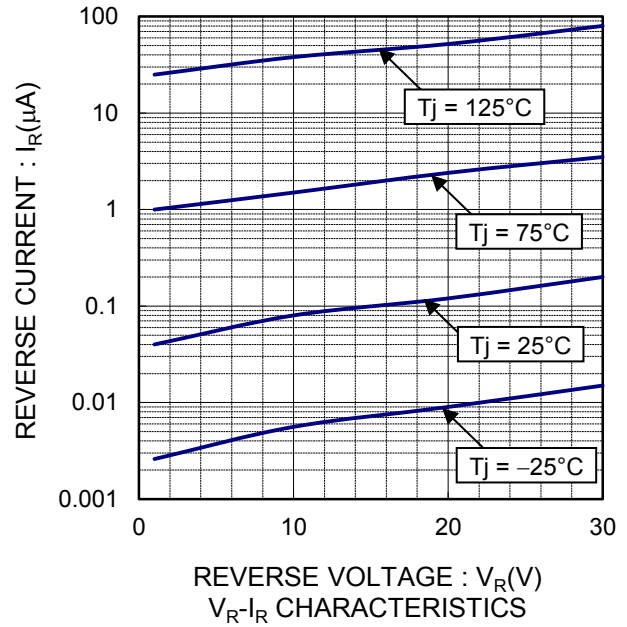
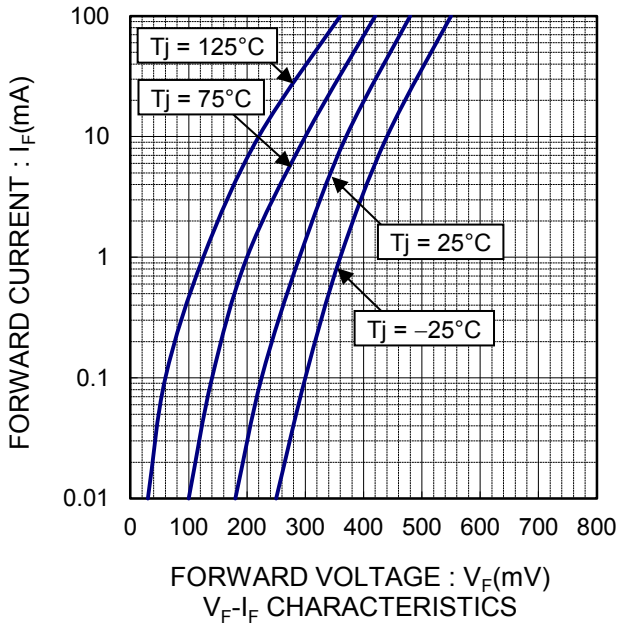
### ●Absolute maximum ratings (Ta= 25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	45	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	$I_o$	100	mA
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	1	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

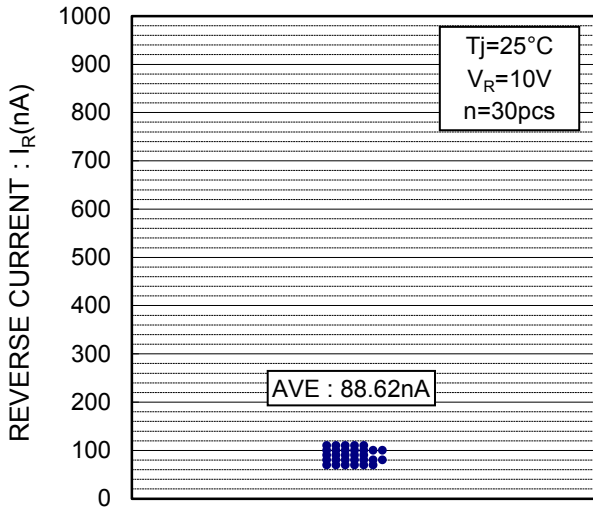
### ●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.45	V	$I_F=10mA$
Reverse current	$I_R$	-	-	1	$\mu A$	$V_R=10V$
Capacitance between terminals	$C_t$	-	6.0	-	pF	$V_R=10V, f=1MHz$

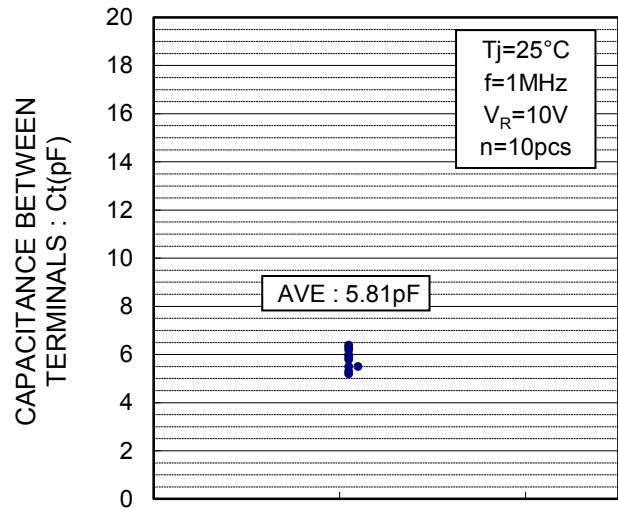
●Electrical characteristic curves



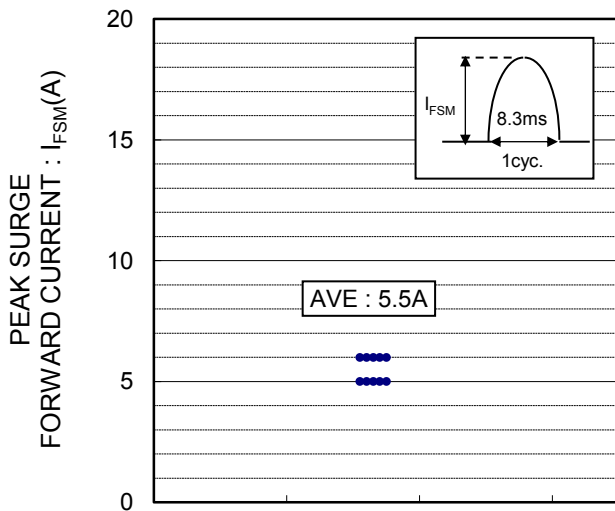
●Electrical characteristic curves



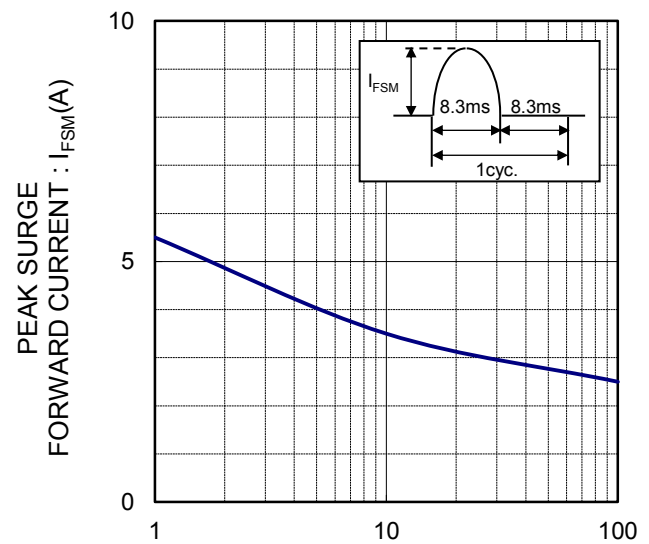
$I_R$  DISPERSION MAP



$C_t$  DISPERSION MAP

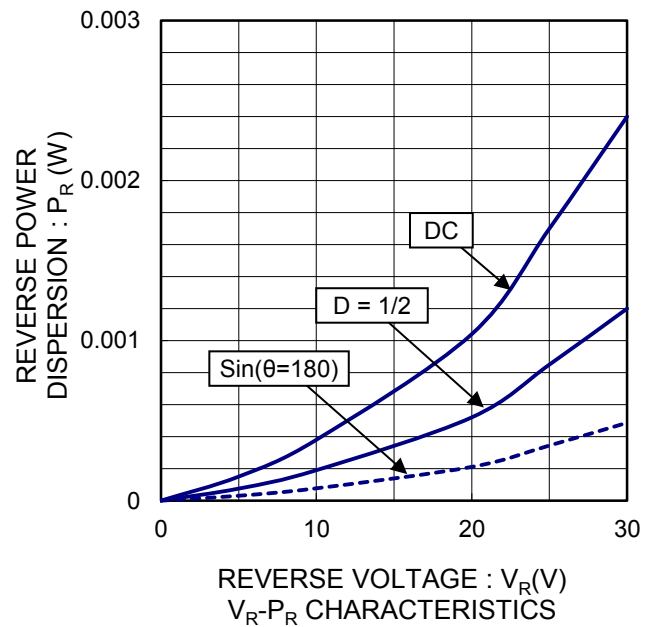
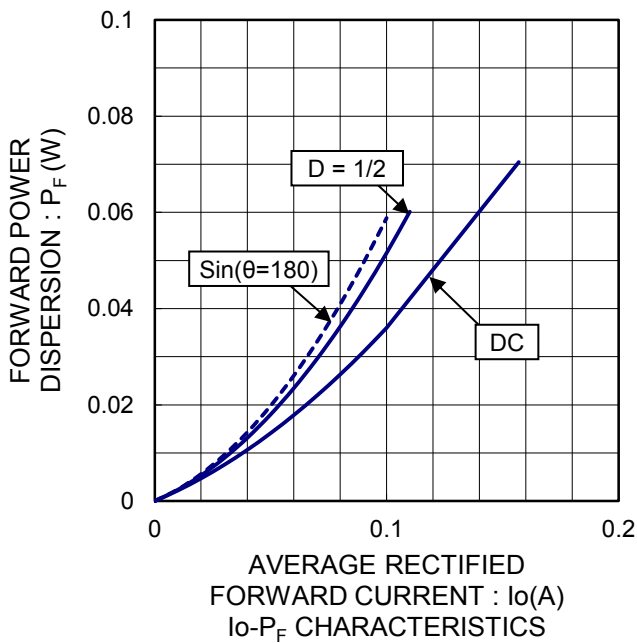
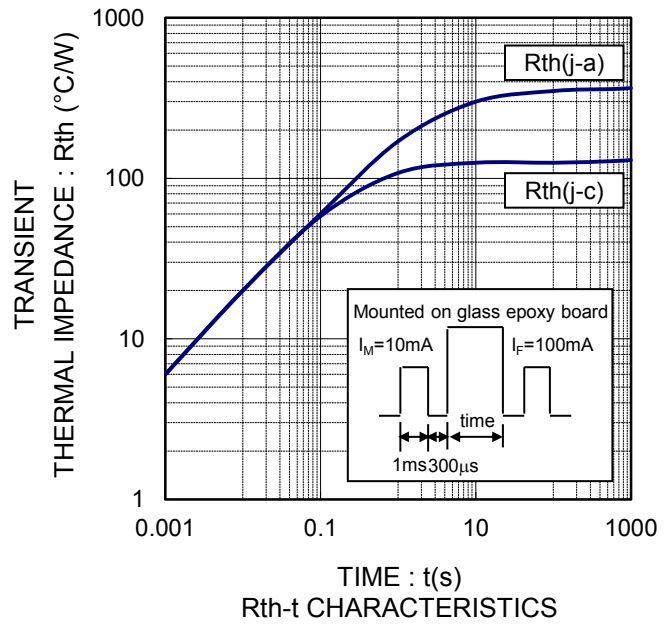
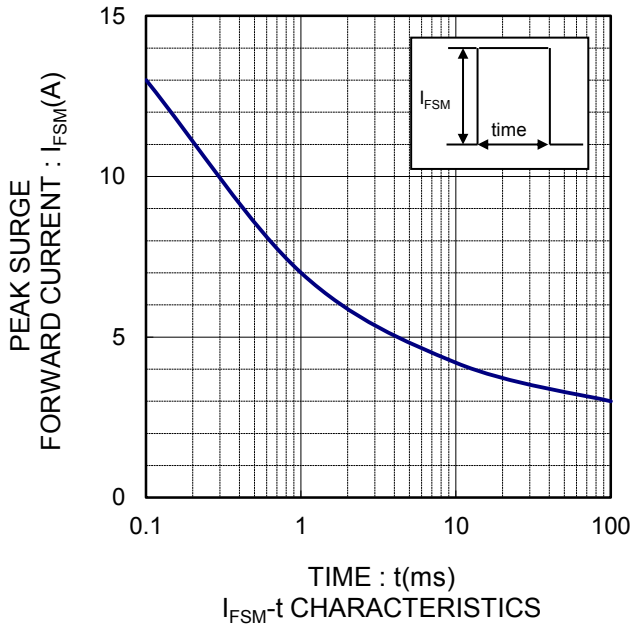


$I_{FSM}$  DISPERSION MAP

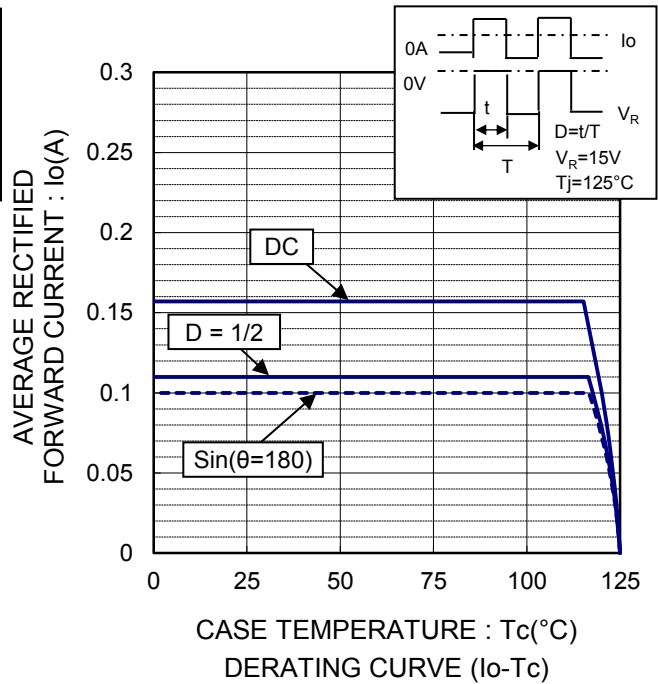
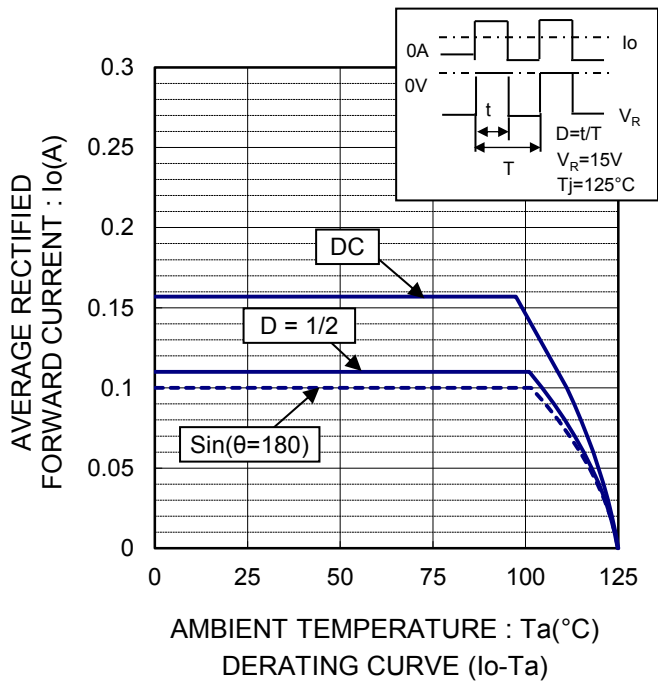


$I_{FSM}$ -CYCLE CHARACTERISTICS

●Electrical characteristic curves



●Electrical characteristic curves



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