

### ●Application

Low current rectification

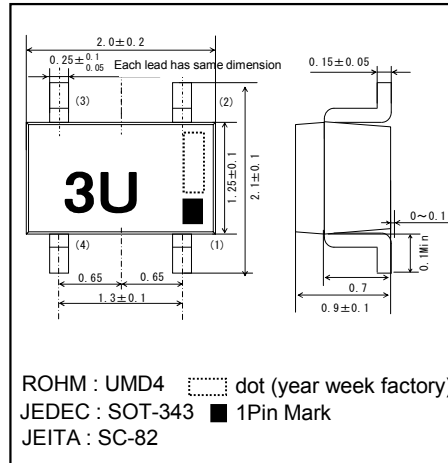
### ●Features

- 1) Ultra small mold type.  
(UMD4)
- 2) Low  $V_F$
- 3) High reliability

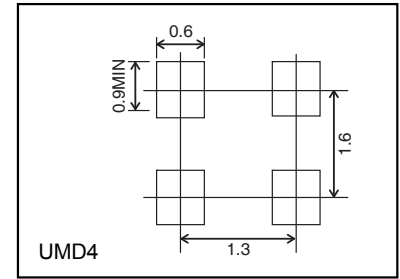
### ●Construction

Silicon epitaxial planar

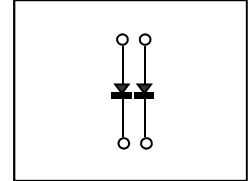
### ●Dimensions (Unit : mm)



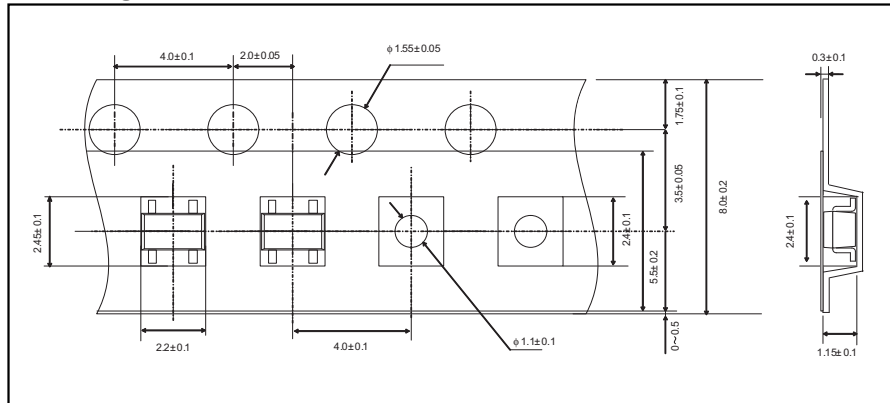
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



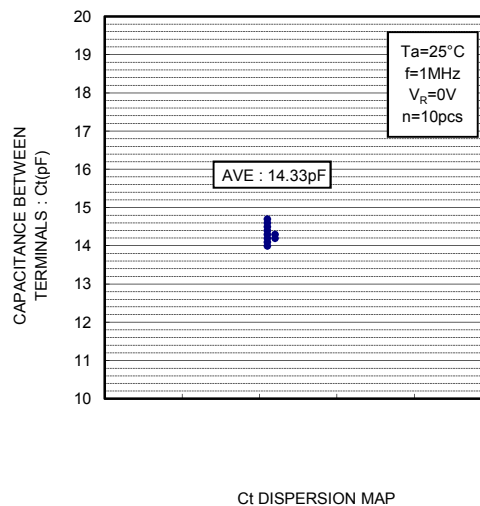
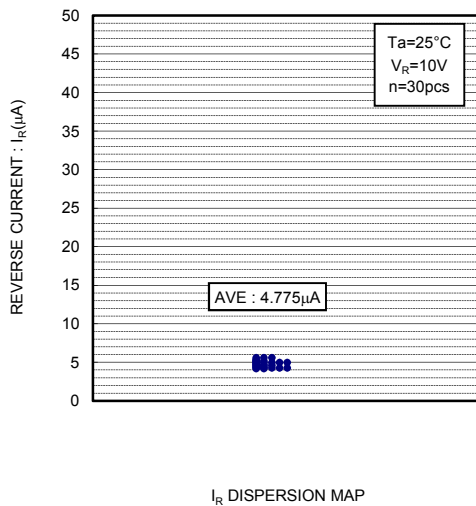
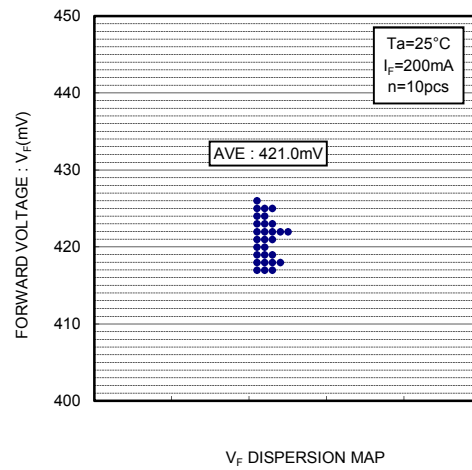
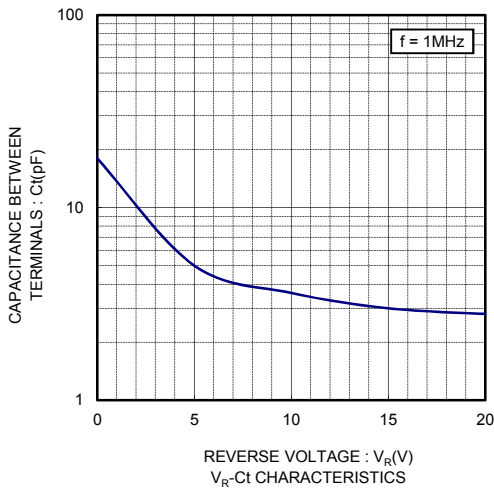
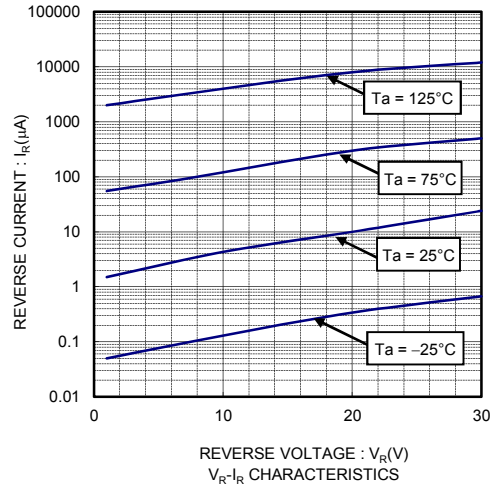
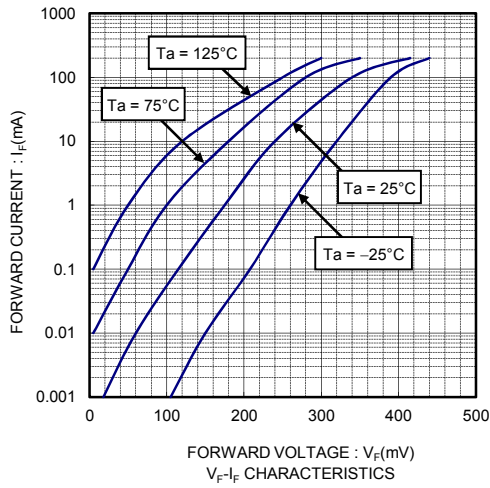
### ●Absolute maximum ratings (Ta = 25°C)

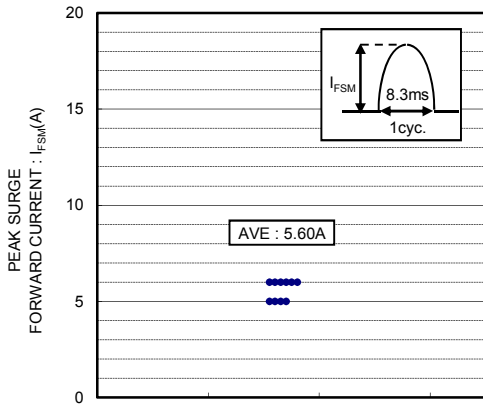
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current (*1)	$I_o$	200	mA
Forward current surge peak (60Hz·1cyc) (*1)	$I_{FSM}$	1	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

(\*1) Rating of per diode

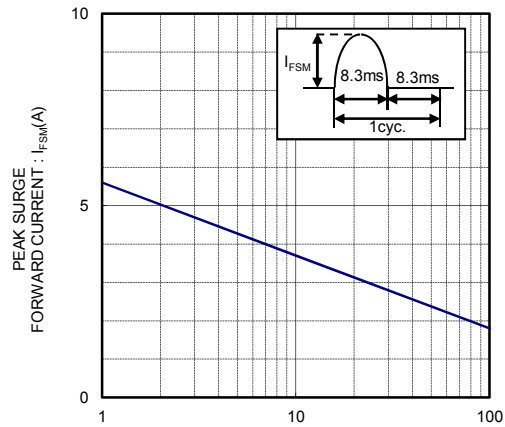
### ●Electrical characteristics (Ta= 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	-	0.28	V	$I_F=10mA$
	$V_{F2}$	-	-	0.33	V	$I_F=100mA$
	$V_{F3}$	-	-	0.43	V	$I_F=100mA$
	$V_{F4}$	-	-	0.50	V	$I_F=100mA$
Reverse current	$I_R$	-	-	30	$\mu A$	$V_R=10V$

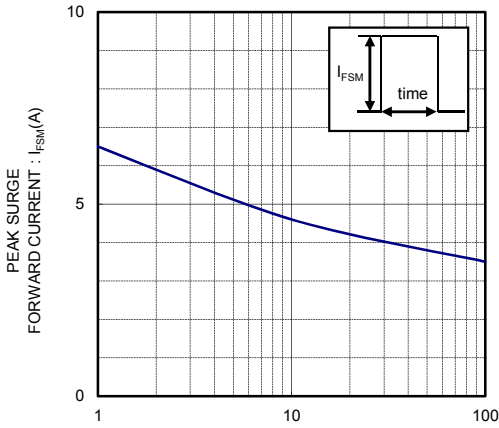




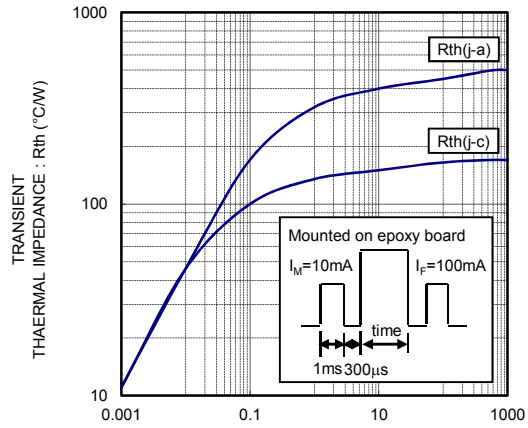
$I_{FSM}$  DISPERSION MAP



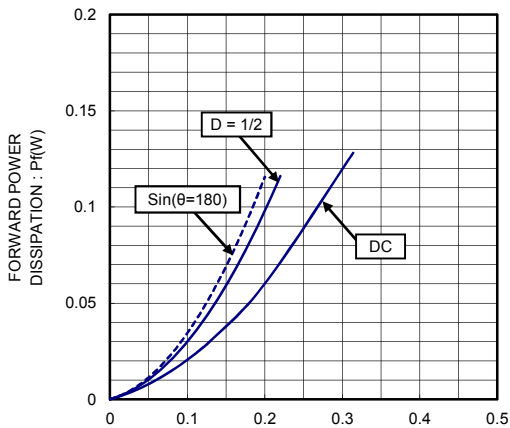
NUMBER OF CYCLES  
 $I_{FSM}$  CYCLE CHARACTERISTICS



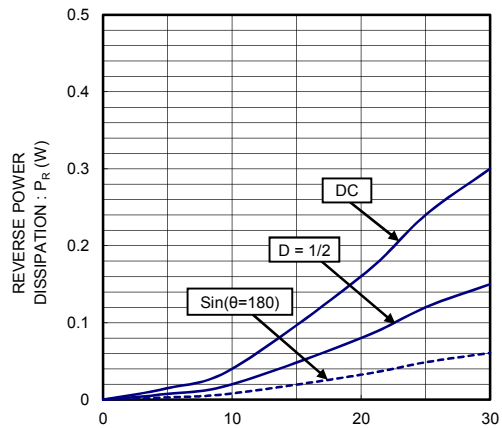
TIME : t (ms)  
 $I_{FSM}$ -t CHARACTERISTICS



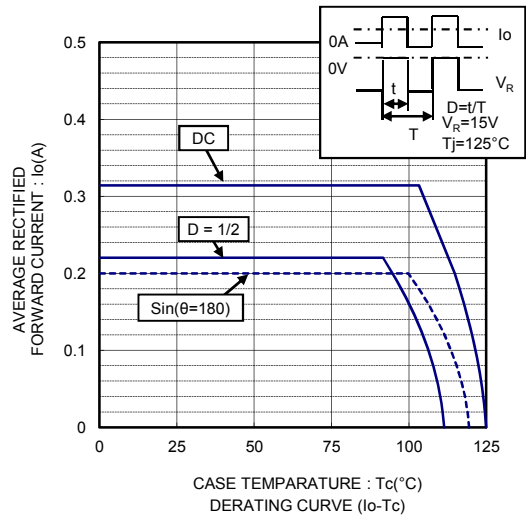
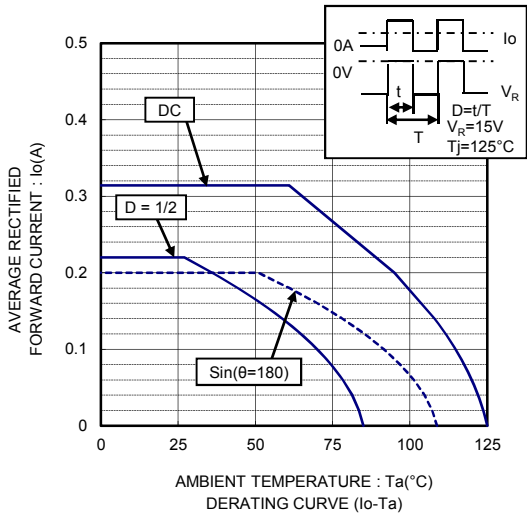
TIME : t (s)  
Rth-t CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT :  $I_o$ (A)  
 $I_o$ -P<sub>f</sub> CHARACTERISTICS



REVERSE VOLTAGE :  $V_R$ (V)  
 $V_R$ -P<sub>R</sub> CHARACTERISTICS



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