

# Switching diode

## DA228U

### ●Applications

Ultra high speed switching

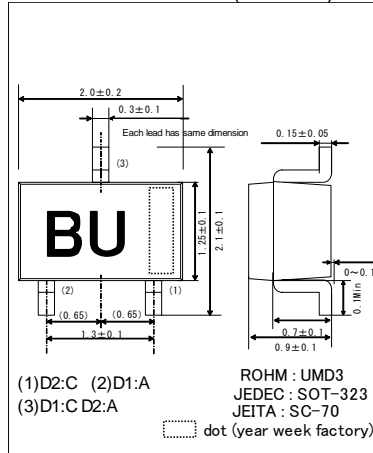
### ●Features

- 1) Ultra small mold type. (UMD3)
- 2) High reliability

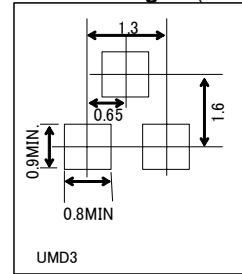
### ●Construction

Silicon epitaxial planar

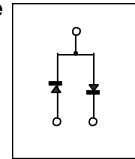
### ●External dimensions (Unit : mm)



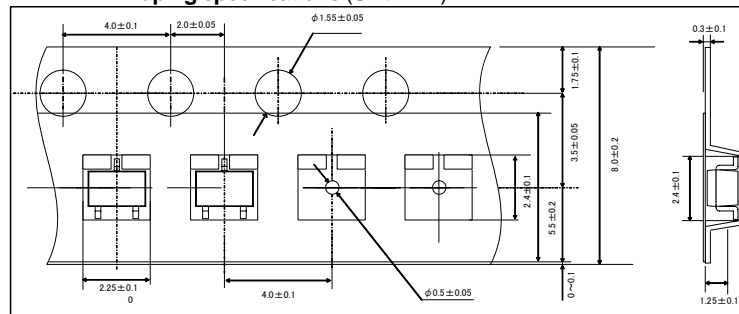
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



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

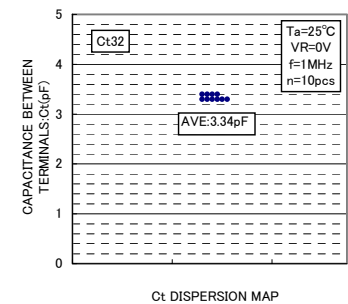
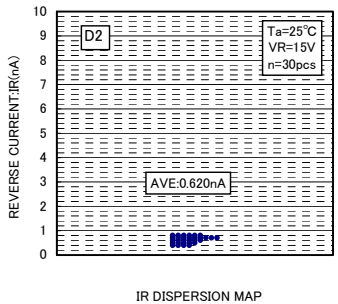
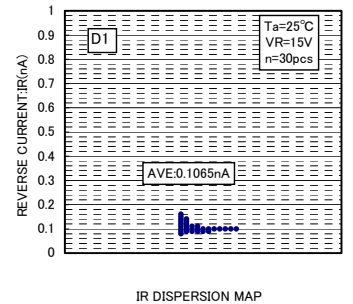
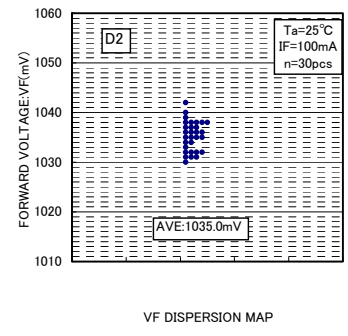
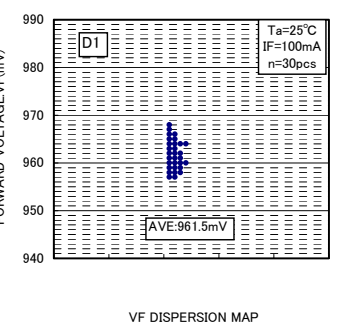
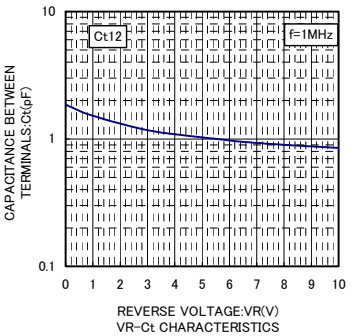
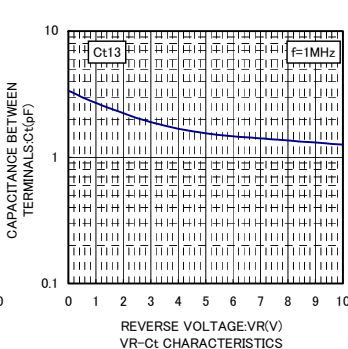
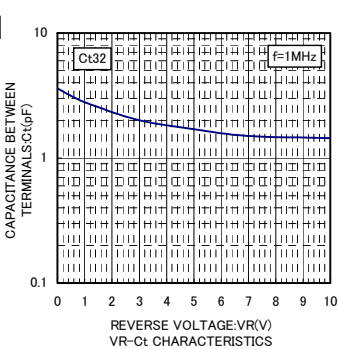
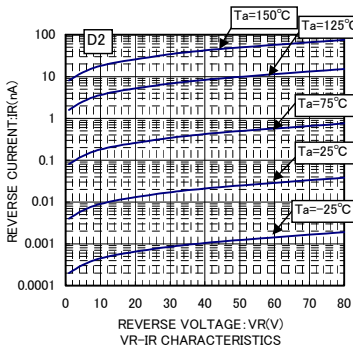
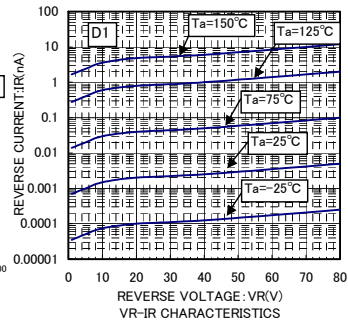
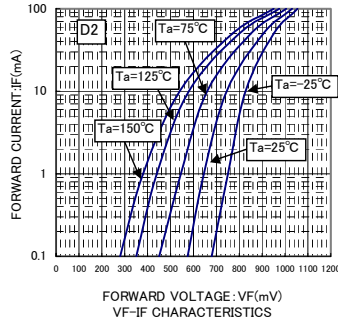
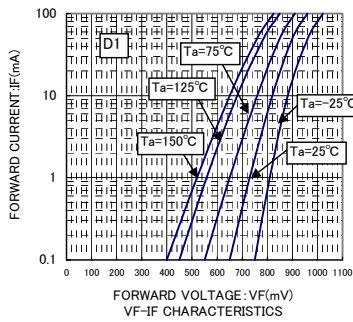
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	80	V
Reverse voltage (DC)	$V_R$	80	V
Forward current (Single)	$I_{FM}$	200	mA
Average rectified forward current (Single)	$I_o$	100	mA
Surge current (t=1μs) (Single)	$I_{surge}$	300	mA
Power dissipation	$P_d$	200	mW/Total
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C
Rated in slash put frequency	f	100	MHz

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

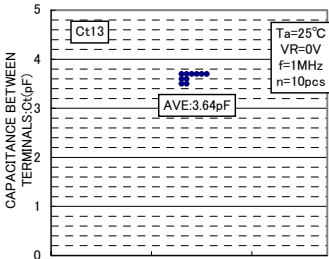
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.2	V	$I_F=100mA$
Reverse current	$I_R$	-	-	0.1	μA	$V_R=80V$
Capacitance between terminals	Ct32	-	-	5.0	pF	$V_R=0V, f=1MHz$
	Ct13	-	-	6.5	pF	
	Ct12	-	-	5.0	pF	

Diodes

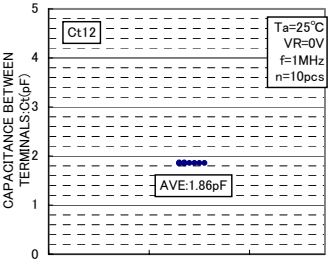
●Electrical characteristic curves (Ta=25°C)



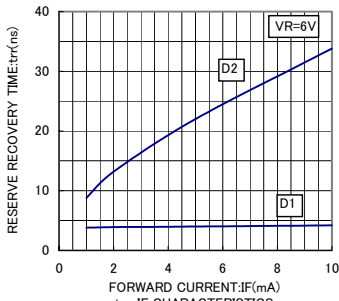
Diodes



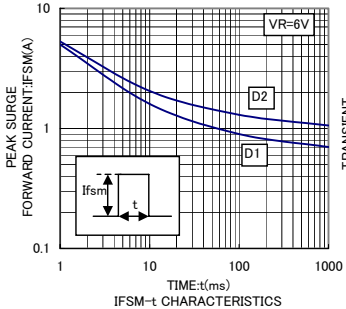
Ct DISPERSION MAP



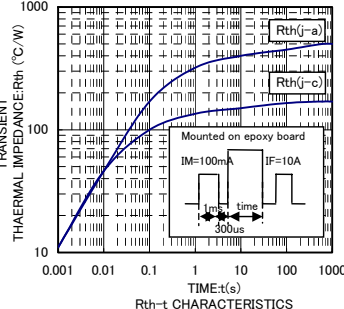
Ct DISPERSION MAP



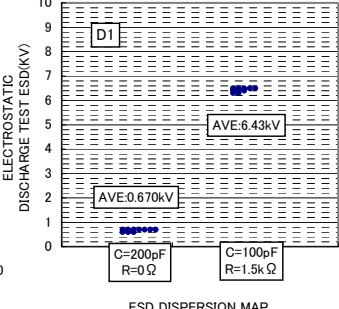
rr-IF CHARACTERISTICS



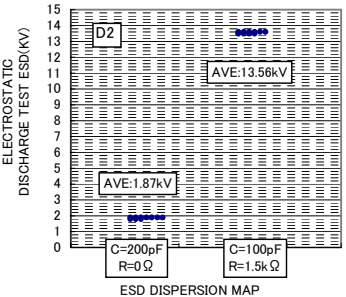
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



ESD DISPERSION MAP



ESD DISPERSION MAP



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