

# Switching Diode

## DA380U

● **Applications**

Switching(Low leakage current)

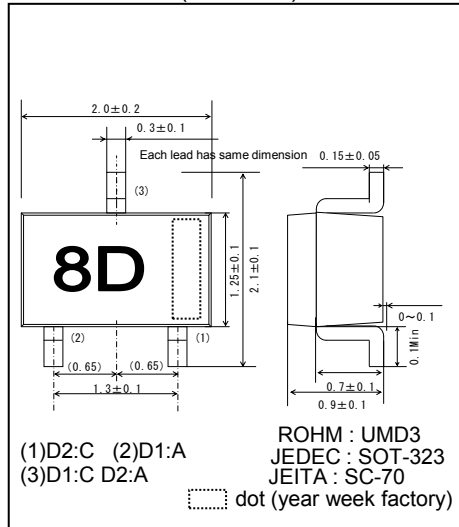
● **Features**

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

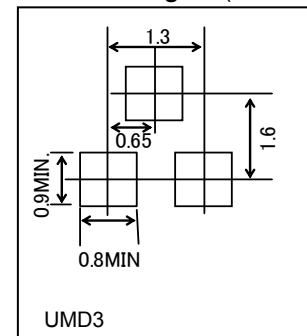
● **Construction**

Silicon epitaxial planer

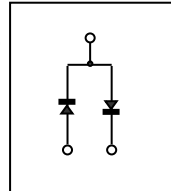
● **Dimensions (Unit : mm)**



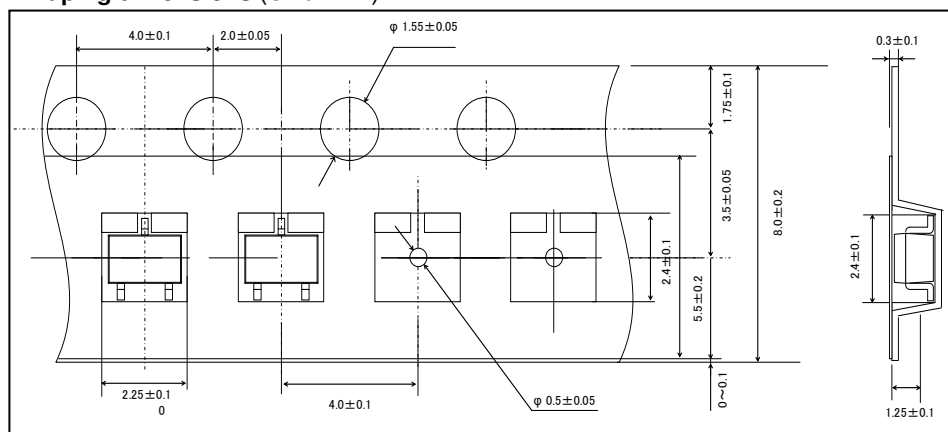
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**

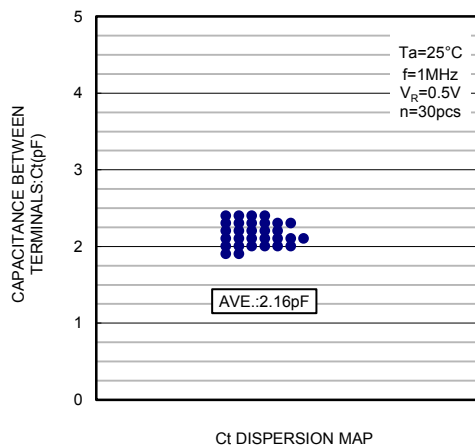
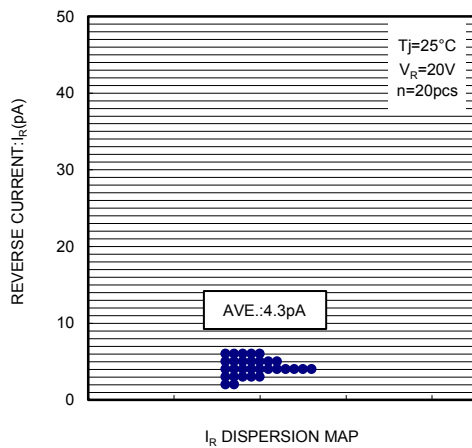
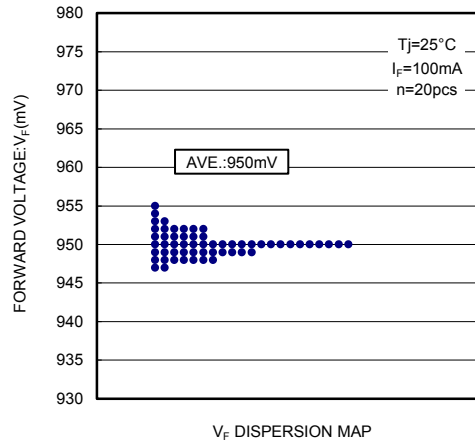
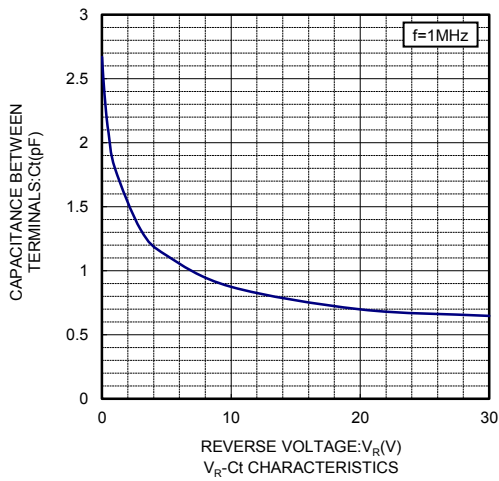
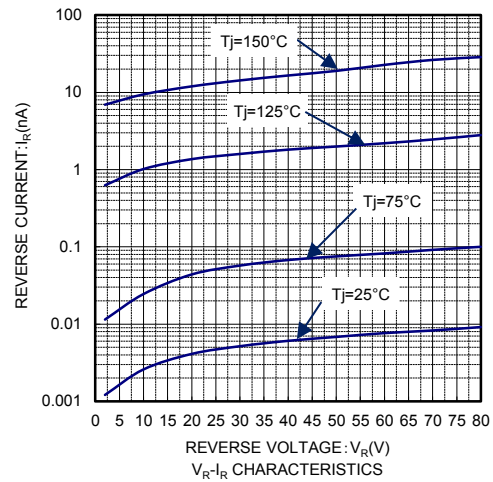
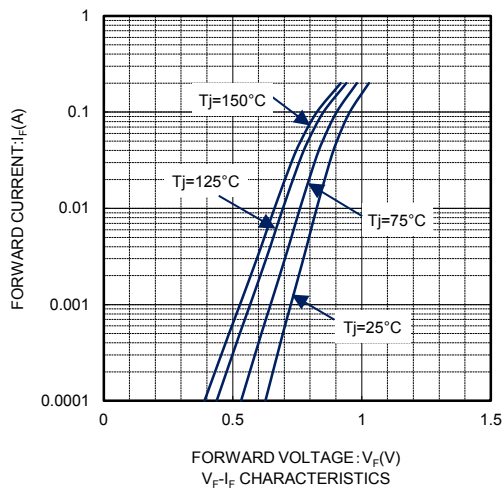


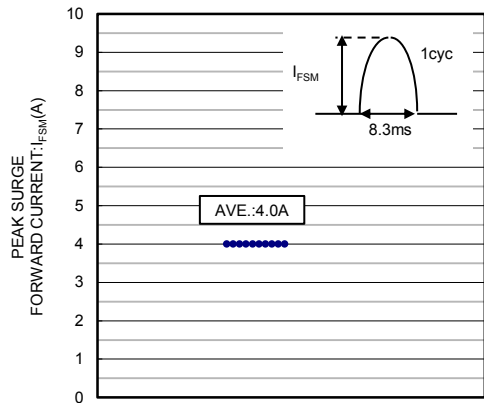
● **Absolute maximum ratings (Tj=25°C)**

Parameter	Symbol	Limits	Unit
Peak reverse voltage	$V_{RM}$	80	V
Reverse voltage (DC)	$V_R$	80	V
Peak forward current	$I_{FM}$	225	mA
Average rectified current	$I_o$	100	mA
Surge current (t=1us)	$I_{surge}$	4	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

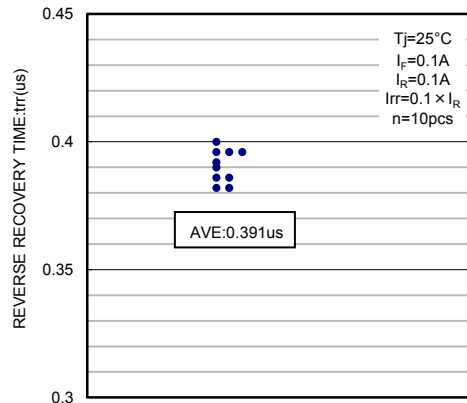
● **Electrical characteristics (Tj=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.2	V	$I_F=100mA$
Reverse current	$I_R$	-	-	10	nA	$V_R=20V$
Capacitance between terminals	$C_t$	-	-	5.0	pF	$V_R=0.5V, f=1MHz$

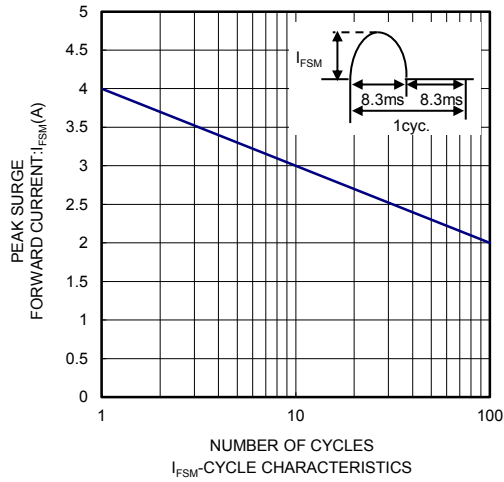




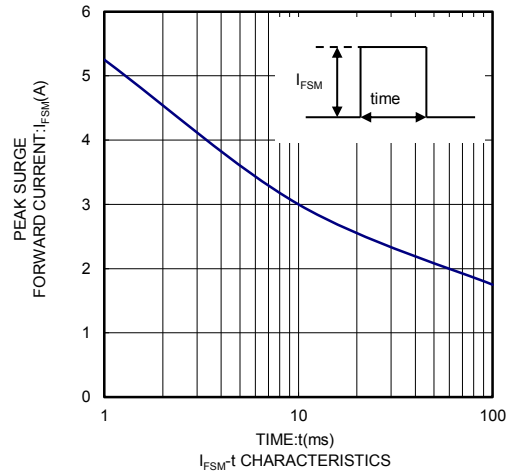
I<sub>FSM</sub> DISPERSION MAP



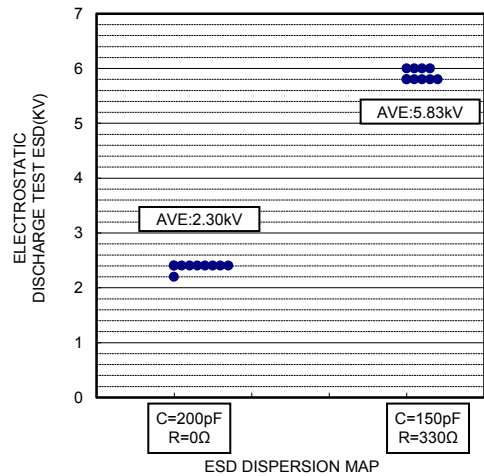
trr DISPERSION MAP



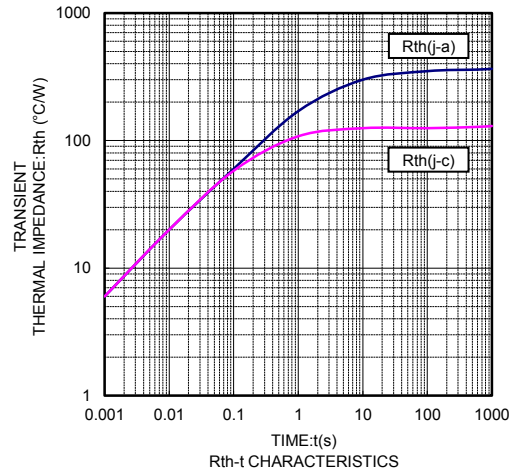
I<sub>FSM</sub>-CYCLE CHARACTERISTICS



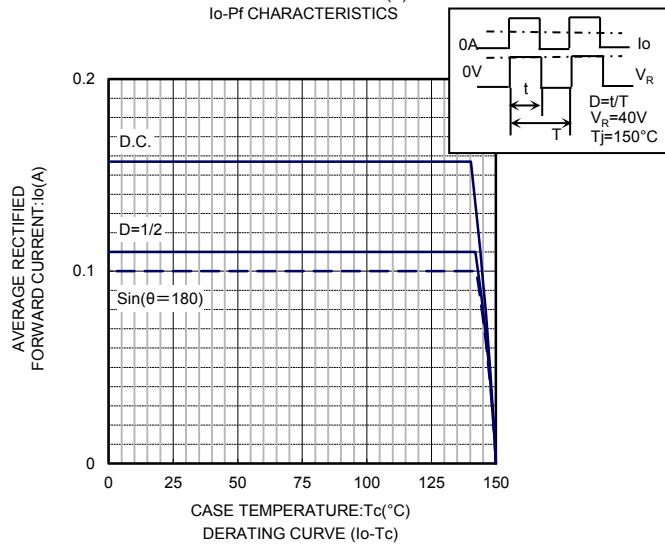
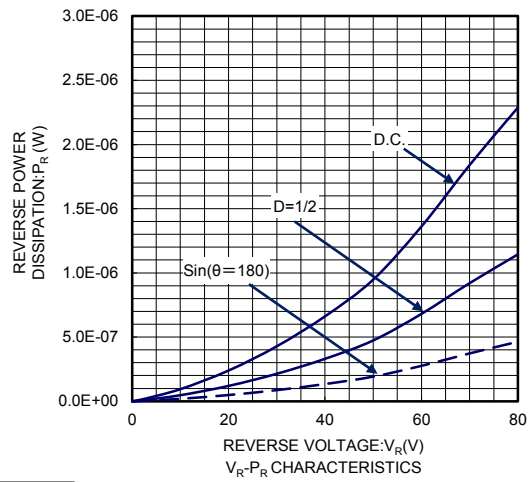
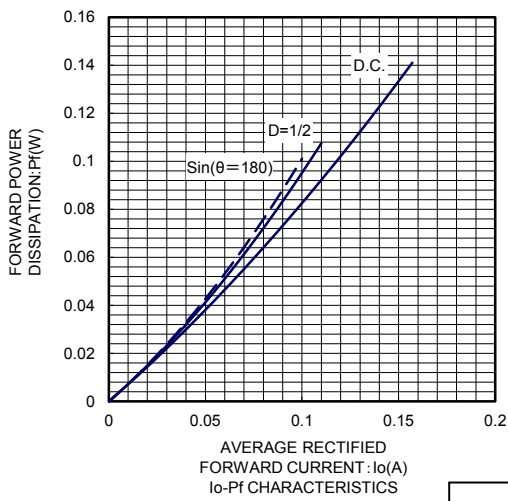
I<sub>FSM</sub>-t CHARACTERISTICS



ESD DISPERSION MAP



R<sub>th</sub>-t CHARACTERISTICS



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