Switching diode

UMN10N

Applications

Very fast recovery

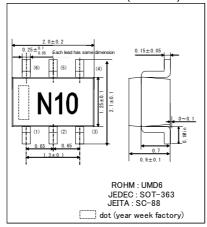
● Features

- 1) Small mold type. (UMD6)
- 2) High reliability

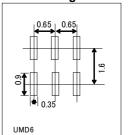
Construction

Silicon epitaxial planer

●External dimensions (Unit : mm)



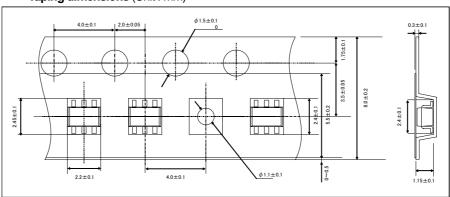
●Land size figure



Structure



●Taping dimensions (Unit: mm)



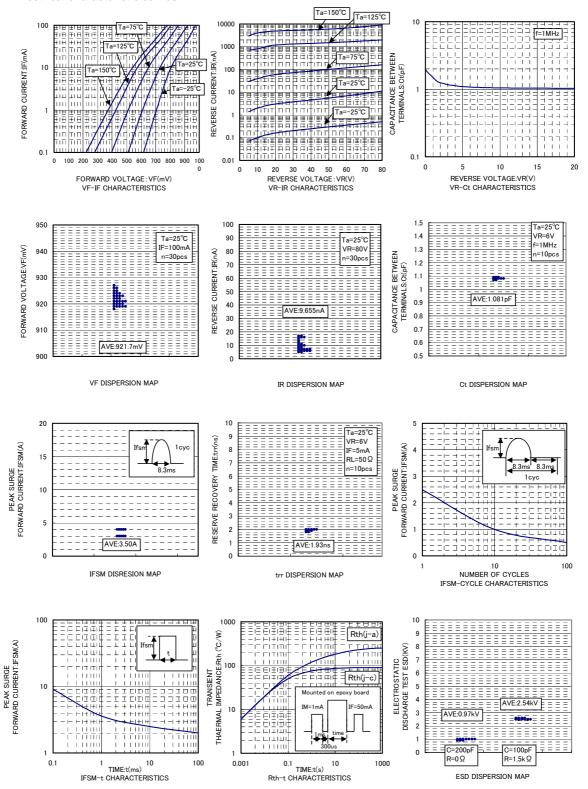
● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Reverse voltage (repetitive peak)	V _{RM}	80	V	
Reverse voltage (DC)	V _R	80	V	
Forward current repetitive peak (Single)	I _{FM}	300	m A	
Average rectified forward current (Single)	lo	100	m A	
Surge current (t=1us)	I _{surge}	4	Α	
Power dissipation	Pd	200	m W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.2	V	I _F =100m A
Reverse current	I _R	-	-	0.1	μA	V _R =70V
Capacitance between terminal	Ct	-	-	3.5	pF	V _R =6V , f=1MHz
Reverse recovery time	trr	-	-	4	ns	V_R =6 V , IF=5 m A, RL=50 Ω

•Electrical characteristic curves



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