# Switching diode IMN10

## Application

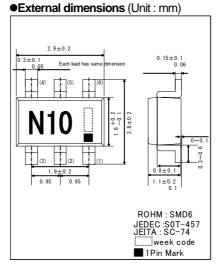
Ultra high speed switching

#### Features

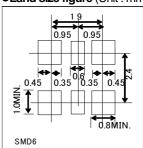
- 1) Small mold type. (SMD6)
- 2) High reliability

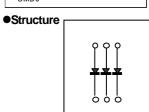
## Construction

Silicon epitaxial planar

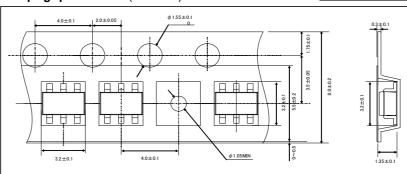


## ●Land size figure (Unit : mm)









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

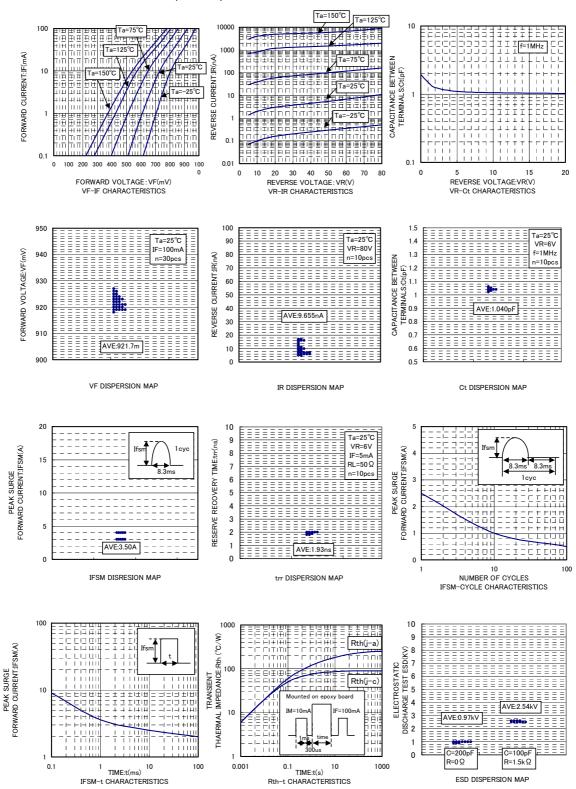
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	80	V
Reverse voltage (DC)	$V_R$	80	V
Forward current (Single)	I <sub>FM</sub>	300	mA
Forward current (Double)	I <sub>FM</sub>	450	mA
Average rectified forward current (single)	lo	100	mA
Surge current (t=1us)	I <sub>surge</sub>	4	Α
Power dissipation (TOTAL)(*1)	Pd	300	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

<sup>(\*1)</sup> Not exceed 200mW per element.

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	-	1.2	V	I <sub>F</sub> =100mA
Reverse current	I <sub>R</sub>	-	-	0.1	μΑ	V <sub>R</sub> =70V
Capacitance between terminals	Ct	-	-	3.5	pF	V <sub>R</sub> =6V , f=1MHz
Reverse recovery time	trr	-	-	4	ns	$V_R$ =6V , IF=5mA , RL=50 $\Omega$

#### ●Electrical characteristic curves (Ta=25°C)



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