# Band switching diode

# **DAN235E / DAN235U**

#### Applications

High frequency switching

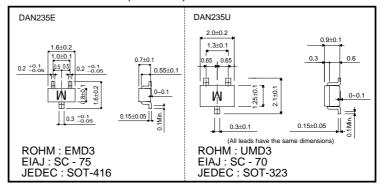
#### ● Features

- 1) Small surface mounting type. (EMD3, UMD3)
- 2) High reliability.

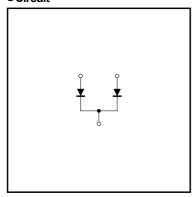
## ● Construction

Silicon epitaxial planar

#### ●External dimensions (Units: mm)



#### ●Circuit



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

Parameter	Symbol	Limits	Unit			
DC reverse voltage	VR	35	V			
Power dissipation	Pd	150	mW			
Junction temperature	Tj	125	°C			
Storage temperature	Tstg	-55~+125	°C			

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	VF	-	0.85	1.0	V	I <sub>F</sub> =10mA
Reverse current	IR	-	0.01	10	nA	V <sub>R</sub> =25V
Capacitance between terminals	Ст	-	0.87	1.2	pF	V <sub>R</sub> =6V, f=1MHz
Forward operating resistance	ľF	-	0.65	0.9	Ω	I <sub>F</sub> =2mA, f=100MHz

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

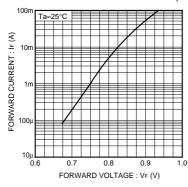


Fig. 1 Forward characteristics

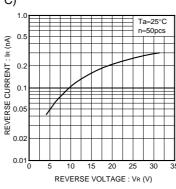


Fig. 2 Reverse characteristics

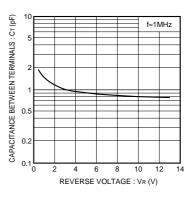


Fig. 3 Capacitance between terminals characteristics

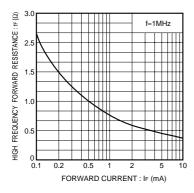


Fig. 4 Forward operating resistance characteristics

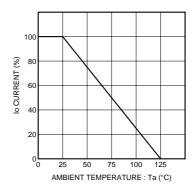


Fig. 5 Derating curve (mounting on glass epoxy PCBs)

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