Band switching diode

DAN235E / DAN235U

●Applications

High frequency switching

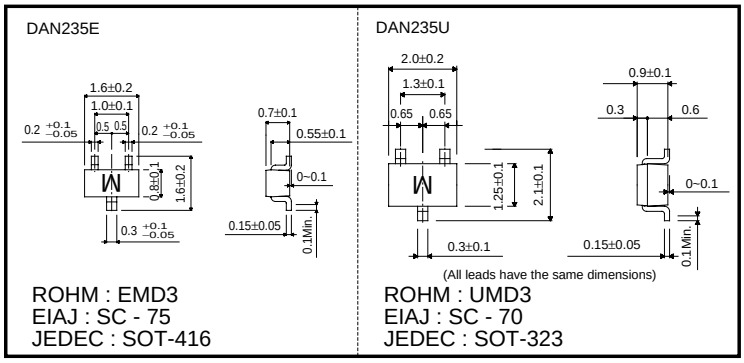
●Features

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

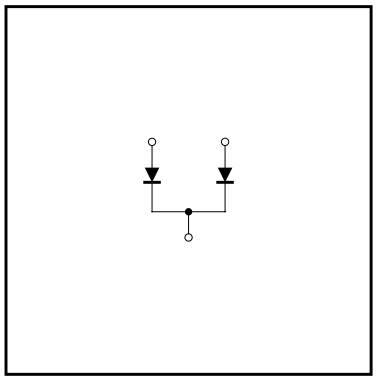
●Construction

Silicon epitaxial planar

●External dimensions (Units : mm)



●Circuit



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
DC reverse voltage	V_R	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.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	–	0.85	1.0	V	I_F=10mA
Reverse current	I_R	–	0.01	10	nA	V_R=25V
Capacitance between terminals	C_T	–	0.87	1.2	pF	V_R=6V, f=1MHz
Forward operating resistance	r_F	–	0.65	0.9	Ω	I_F=2mA, f=100MHz

●Electrical characteristic curves (Ta=25°C)

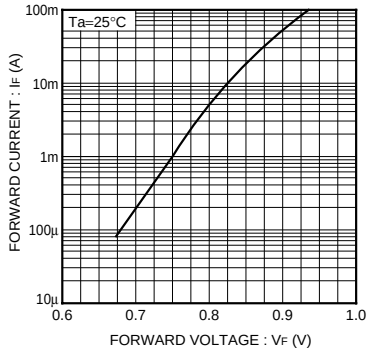


Fig. 1 Forward characteristics

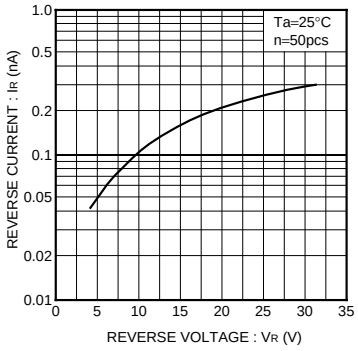


Fig. 2 Reverse characteristics

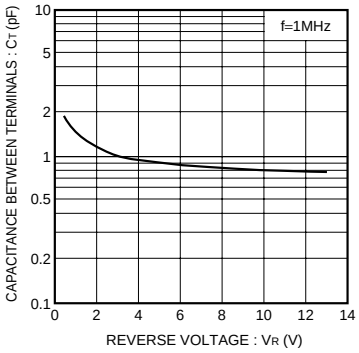


Fig. 3 Capacitance between terminals characteristics

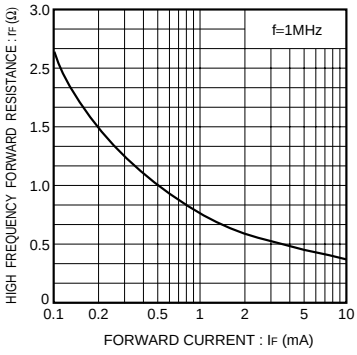


Fig. 4 Forward operating resistance characteristics

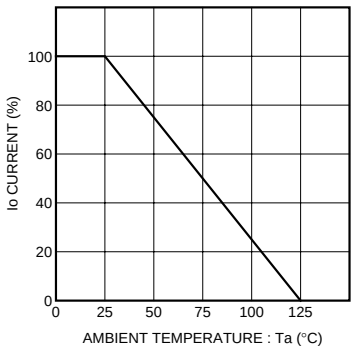


Fig. 5 Derating curve (mounting on glass epoxy PCBs)

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