Band switching diode

DAP236U

Applications

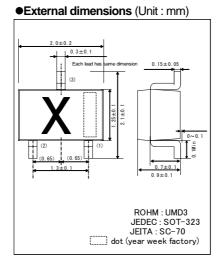
High speed switching

● Features

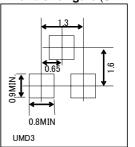
- 1) Ultra small mold type. (UMD3)
- 2) High reliability.

●Construction

Silicon epitaxial planar



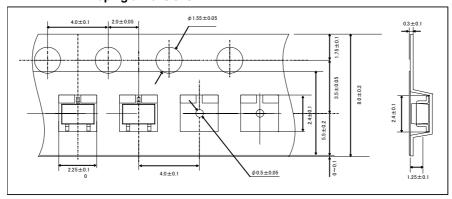
●Land size figure (Unit : mm)



Structure



Taping dimensions



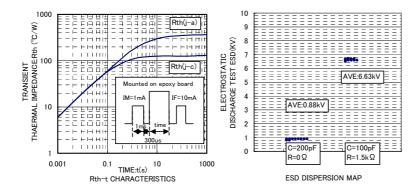
● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	Pd	150	mW
Reverse voltage (DC)	V_R	35	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	1.0	V	I _F =10mA
Reverse current	I _R	-	-	10	nA	$V_R=25V$
Capacitance between terminal	Ct	-	-	1.2	pF	V _R =6V , f=1MHz
Forward operating resistance	rf	-	-	0.9	Ω	I _F =2mA , f=100MHz

●Electrical characteristic curves (Ta=25°C) FORWARD CURRENT:IF(mA) CAPACITANCE BETWEEN TERMINALS:Ot(pF) 0.1 0.0001 0 10 15 0 20 30 40 50 20 00 300 400 500 600 700 800 900 100 110 120 FORWARD VOLTAGE:VF(mV)⁰ 0 0 REVERSE VOLTAGE: VR(V) REVERSE VOLTAGE:VR(V) VF-IF CHARACTERISTICS VR-IR CHARACTERISTICS VR-Ct CHARACTERISTICS 10 Ta=25°C Ta=25°C VR=25V FORWARD VOLTAGE:VF(mV) 0.08 FORWARD OPERATING RESISTANCE:rf(Ω) REVERSE CURRENT:IR(nA) n=30pcs 0.07 840 830 0.03 820 0.02 0.01 0.1 810 0.01 10 FORWARD CURRENT:IF(mA) VF DISPERSION MAP IR DISPERSION MAP rf-IF CHARACTERISTICS Ta=25°C VR=6V 0.9 RESERVE RECOVERY TIME:tm(ns) PEAK SURGE FORWARD CURRENT:IFSM(A) 0.8 VR=6V IF=10mA AVE:0.807pF AVE:5.60A AVE:1.20ns 0.1 0 Ct DISPERSION MAP IFSM DISRESION MAP trr DISPERSION MAP 9 PEAK SURGE FORWARD CURRENT:IFSM(A) PEAK SURGE FORWARD CURRENT:IFSM(A) 0.8 8 FORWARD OPERATING 7 RESISTANCE:#(᠒) 0.0 0.5 0.4 0.3 8.3ms 8.3ms 6 5 10 3 0.2 2 0.1 AVE:0.602 Ω 0 100 NUMBER OF CYCLES IFSM-CYCLE CHARACTERISTICS FORWARD CURRENT:IF(mA) IFSM-t CHARACTERISTICS rf DISPERSION MAP



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