

Series connected diode array

DA221 / DA204U / DA204K / DAN217

New

New

DAN217U / BAV99U *1

*1 BAV99U is only sold in countries other than Japan.

●Applications

Bias circuits
Protection circuits

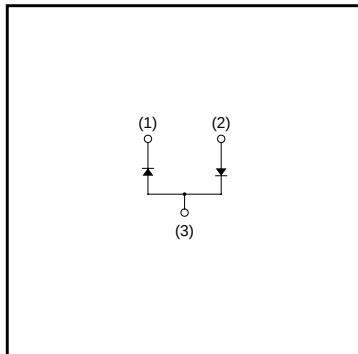
●Features

- 1) Two diode elements are connected in series (vfx2) per circuit.
- 2) Three types of packages are available. (EMD3, UMD3, SMD3)

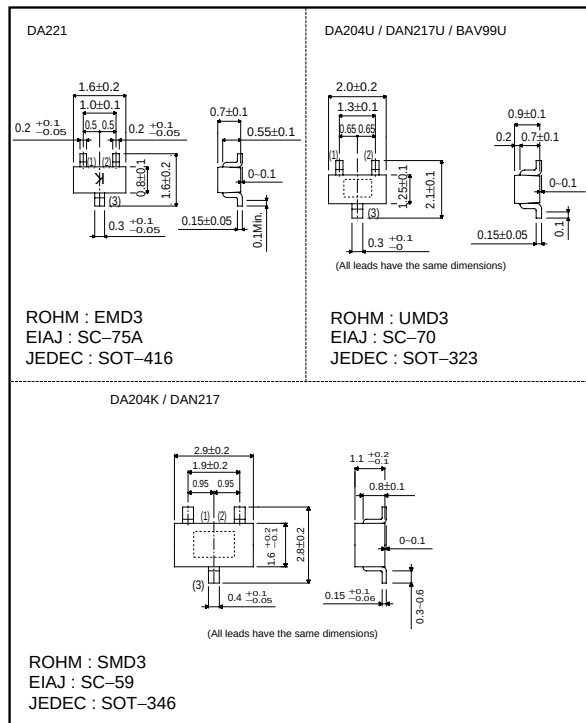
●Construction

Silicon epitaxial planar

●Equivalent circuit



●External dimensions (Units : mm)



●Marking

	SMD3		UMD3		EMD3
DA204K		DA204U		DA221	
DAN217		DAN217U BAV99U		—	—

DA221 / DA204U / DA204K / DAN217 / DAN217U / BAV99U

Diodes

●Absolute maximum ratings (Ta = 25°C)

Type	Peak reverse voltage V _{RM} (V)	DC reverse voltage V _R (V)	Peak forward current I _{FM} (mA)	Mean rectifying current I _o (mA)	Surge current (1μs) I _{surge} (mA)	Power dissipation (TOTAL) Pd(mW)	Junction temperature T _j (°C)	Storage temperature T _{stg} (°C)
DA221	20	20	200	100	300	150	150	-55 ~ +150
DA204U	20	20	200	100	300	200	150	-55 ~ +150
DAN217U	80	80	300	100	4000	200	150	-55 ~ +150
BAV99U	80	80	300	100	4000	200	150	-55 ~ +150
DA204K	20	20	200	100	300	200	150	-55 ~ +150
DAN217	80	80	300	100	4000	200	150	-55 ~ +150

●Electrical characteristics (Ta = 25°C)

Type	Forward voltage		Reverse current		Fig
	V _F (V) Max.	Cond.	I _R (μA) Max.	Cond.	
		I _F (mA)		V _R (V)	
DA221	1.0	10	0.1	15	1 ~ 3
DA204U	1.0	10	0.1	15	1 ~ 3
DAN217U	1.2	100	0.2	70	6 ~ 7
BAV99U	1.2	100	0.2	70	6 ~ 7
DA204K	1.0	10	0.1	15	1 ~ 3
DAN217	1.2	100	0.1	70	4 ~ 5

Diodes

●Electrical characteristic curves (Ta = 25°C unless specified otherwise)

(DA221,DA204U,DA204K) ...Fig.1~3

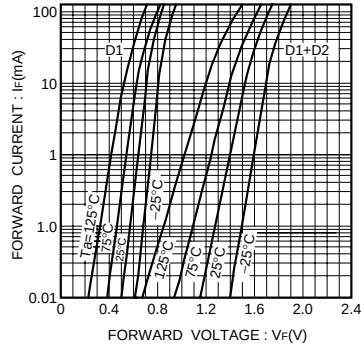


Fig.1 Forward current vs. forward voltage

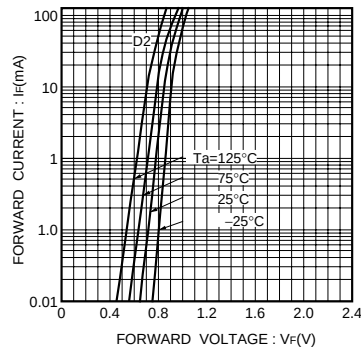


Fig.2 Forward current vs. forward voltage

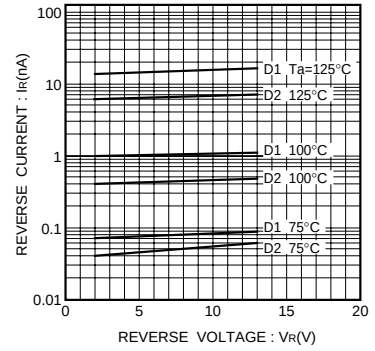


Fig.3 Reverse current vs. reverse voltage

(DAN217) ...Fig.4-5

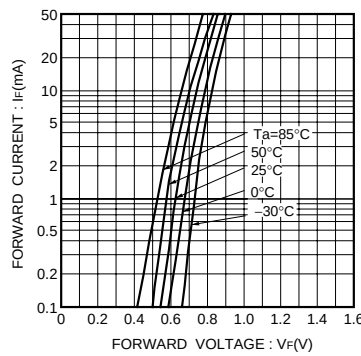


Fig.4 Forward current vs. forward voltage

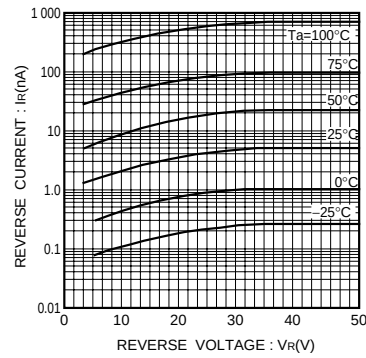


Fig.5 Reverse current vs. reverse voltage

(DAN217U,BAV99U) ...Fig.6~7

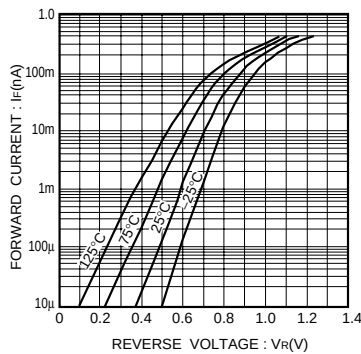


Fig.6 Forward current vs. forward voltage

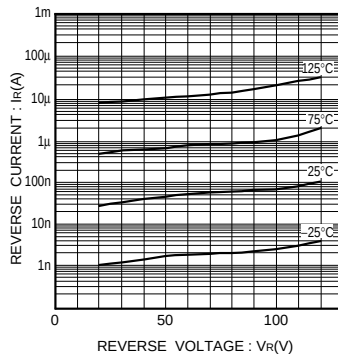


Fig.7 Reverse current vs. reverse voltage