

Series connected diode array

DA221 / DA204U / DA204K / DAN217

●Applications

Bias circuits

Protection circuits

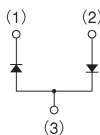
●Features

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

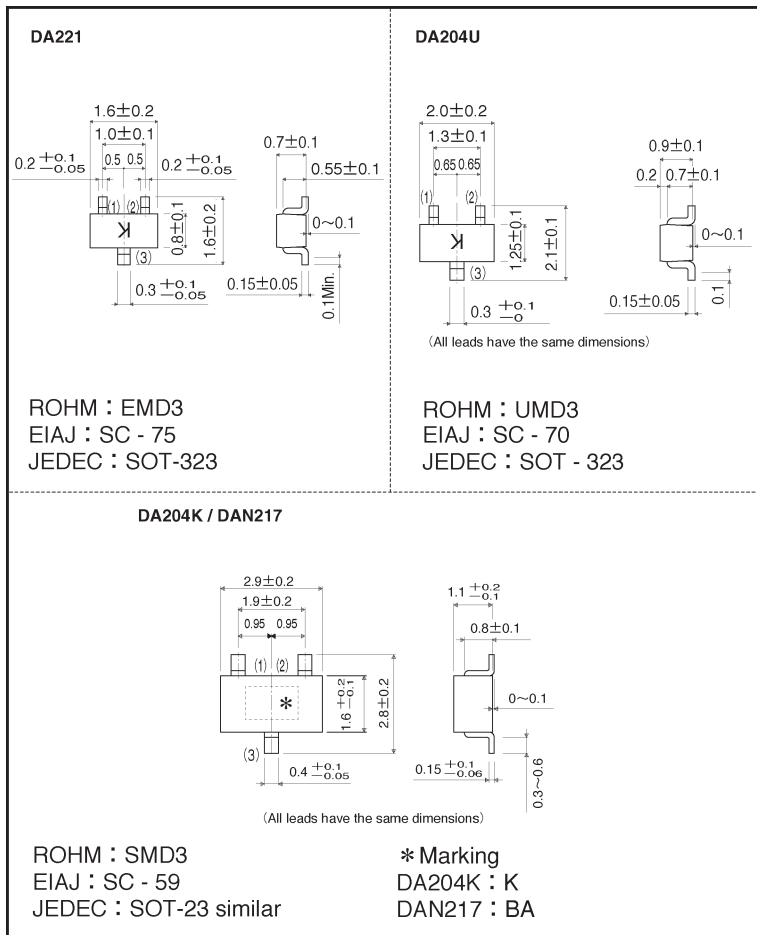
●Construction

Silicon epitaxial planar

●Equivalent circuit



●External dimensions (Units: mm)



●Marking

SMD3		UMD3		EMD3	
DA204K		DA204U		DA221	
DAN217		—	—	—	—

●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 (1 μs) I _{surge} (mA)	Power dissipation (TOTAL) Pd (mW)	Junction temperature Tj (°C)	Storage temperature Tstg (°C)
DA221	20	20	200	100	300	150	150	-55~+150
DA204U	20	20	200	100	300	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
DA204K	1.0	10	0.1	15	1~3
DAN217	1.2	100	0.1	80	4~5

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

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

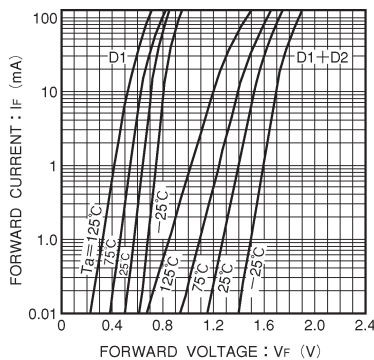


Fig.1 Forward current vs. forward voltage

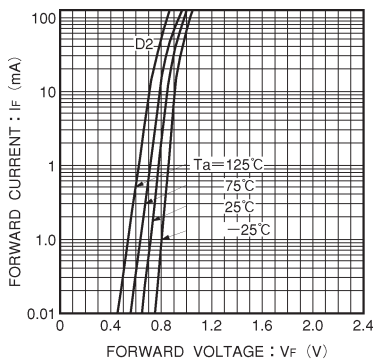


Fig.2 Forward current vs. forward voltage

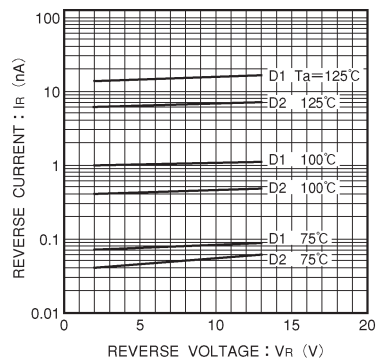


Fig.3 Reverse current vs. reverse voltage

(DAN217) • • • • Fig.4 ~ 5

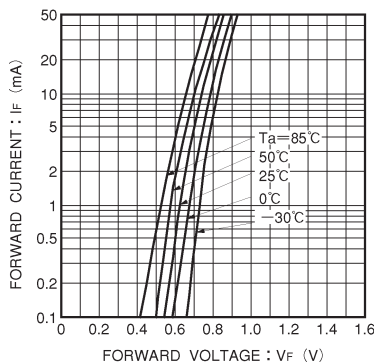


Fig.4 Forward current vs. forward voltage

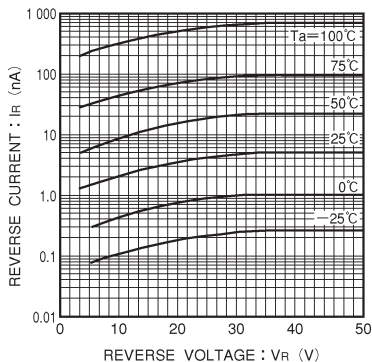


Fig.5 Reverse current vs. reverse voltage