

DA221 / DA204U / DA204K / DAN217

New

DAN217U / BAV99U *1

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

- Bias circuits
- Protection circuits

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

Silicon epitaxial planar

DA221

Top view dimensions: 1.6±0.2, 1.0±0.1, 0.5±0.1, 0.2±0.1, 0.8±0.1, 1.6±0.2, 0.3±0.1, 0.15±0.05, 0.7±0.1, 0.55±0.1, 0-0.1, 0.1Min.

Side view dimensions: 0.2±0.1/-0.05, 0.2±0.1/-0.05, 0.15±0.05, 0.1Min.

DA204U / DAN217U / BAV99U

Top view dimensions: 2.0±0.2, 1.3±0.1, 0.65±0.05, 2.5±0.1, 2.1±0.1, 0.3±0.1/-0, 0.15±0.05, 0.9±0.1, 0.7±0.1, 0-0.1, 0.1.

Side view dimensions: 0.2±0.1/-0.05, 0.2±0.1/-0.05, 0.15±0.05, 0.1Min.

(All leads have the same dimensions)

DA204K / DAN217

Top view dimensions: 2.9±0.2, 1.9±0.2, 0.95, 0.95, 1.6±0.2/-0.1, 2.8±0.2, 0.4±0.1/-0.05, 0.15±0.1/-0.05, 0.3-0.6, 1.1±0.1/-0.1, 0.8±0.1, 0-0.1.

Side view dimensions: 0.2±0.1/-0.05, 0.2±0.1/-0.05, 0.15±0.1/-0.05, 0.3-0.6, 0.1Min.

(All leads have the same dimensions)

ROHM : EMD3
EIAJ : SC-75A
JEDEC : SOT-416

ROHM : UMD3
EIAJ : SC-70
JEDEC : SOT-323

ROHM : SMD3
EIAJ : SC-59
JEDEC : SOT-346

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 VRM(V)	DC reverse voltage VR(V)	Peak forward current IFM(mA)	Mean rectifying current Io(mA)	Surge current (1μs) Isurge(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
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
	VF(V) Max.	Cond.	IR(μA) Max.	Cond.	
		IF(mA)		VR(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

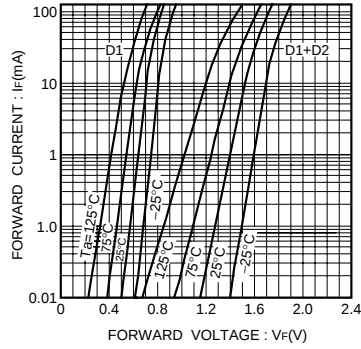


Fig.1 Forward current vs. forward voltage

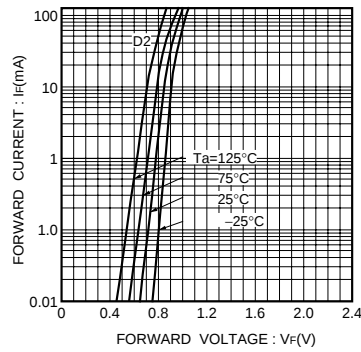


Fig.2 Forward current vs. forward voltage

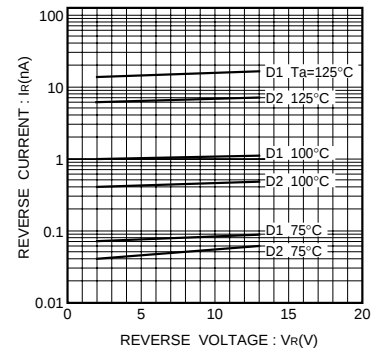


Fig.3 Reverse current vs. reverse voltage

(DAN217) ...Fig.4-5

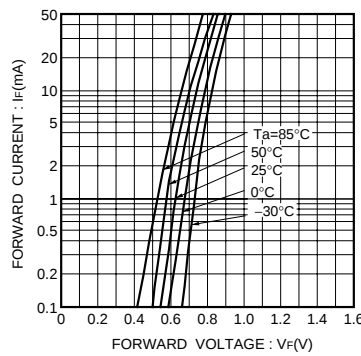


Fig.4 Forward current vs. forward voltage

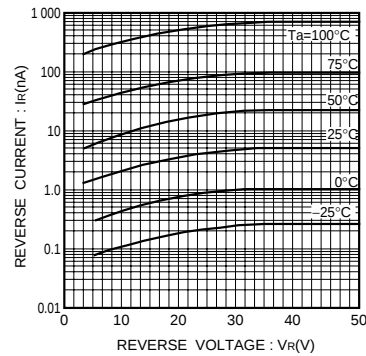


Fig.5 Reverse current vs. reverse voltage

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

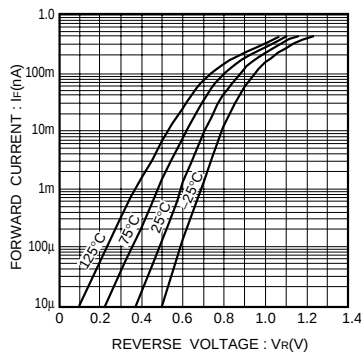


Fig.6 Forward current vs. forward voltage

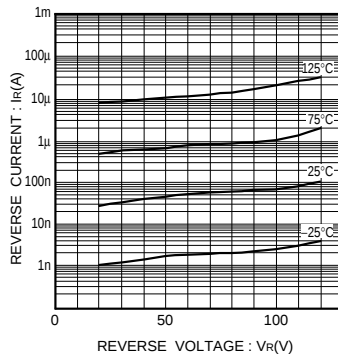


Fig.7 Reverse current vs. reverse voltage