

DA204K DA216 DA218S
DA204U DAN217 DA221
DA210S DAN217C DA223

Diode array, two diodes in series, surface mount and leaded

In these single packages, there are two diodes connected in series (for $2V_F$ ratings) as shown in the circuit diagrams.

Features

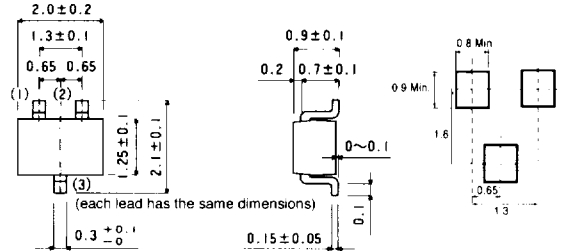
- available in the following packages:
 - SSD3 (SST, US/European SOT-23)
 - SMT (SMD3, SC-59, Japanese SOT-23)
 - UMD3 (UMT, SOT-323, SC-90)
 - EMD3 (EM3, SC-90) 3-pin packages
 - FTL TL2
 - SPT
- suitable for automatic mounting on printed circuit board
- all diodes in the package have similar characteristics

Applications

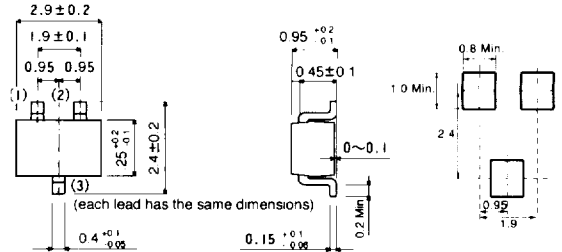
- protection circuits
- bias circuits

Dimensions (Units : mm)

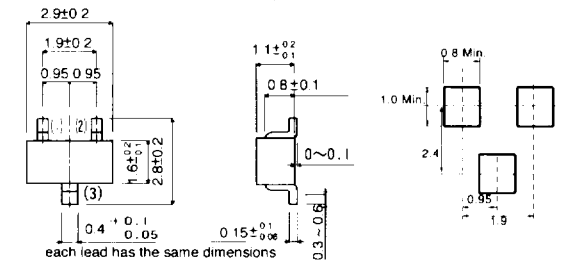
DA204U (UMD3)



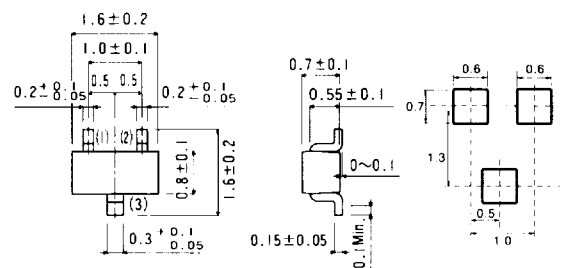
DA217C (SSD3)



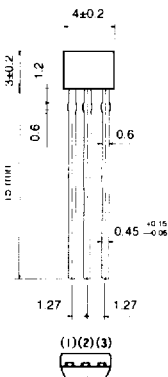
DA204K, DAN217 (SMD3)



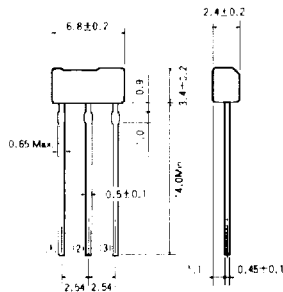
DA221, DA223 (EMD3)



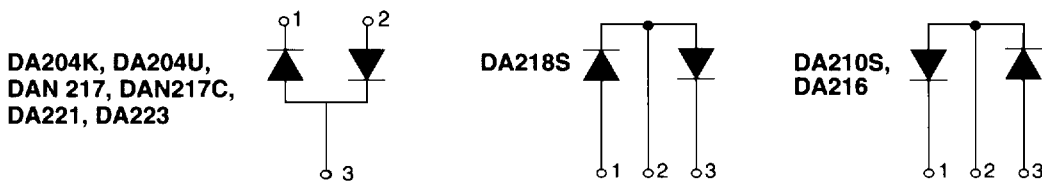
DA210S, DA218S (SPT)



DA216 (FTL TL2)



Equivalent circuits



Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Part no.	Peak reverse voltage V_{RM} (V)	DC reverse voltage V_R (V)	Peak forward current I_F (mA)	Mean rectifying current I_O (mA)	Surge current (1 μ s) I_{surge} (mA)	Power dissipation (Total) P_d (mW)	Junction temp. T_j ($^\circ\text{C}$)	Storage temp. T_{stg} ($^\circ\text{C}$)
DA204K	20	20	200	100	300	200	150	-55 ~ +150
DA204U	20	20	200	100	300	200	150	-55 ~ +150
DA210S	20	20	200	100	300	200	150	-55 ~ +150
DA216	20	20	200	100	300	200	150	-55 ~ +150
DAN217	80	80	300	100	4000	200	150	-55 ~ +150
DAN217C	80	80	300	100	4000	200	150	-55 ~ +150
DA218S	80	80	300	100	4000	200	150	-55 ~ +150
DA221	20	20	200	100	300	150	150	-55 ~ +150
DA223	40	40	200	100	300	150	150	-55 ~ +150

Electrical characteristics (unless otherwise noted, $T_a = 25^\circ\text{C}$)

Part no.	Forward voltage V_F (V) Max.				Reverse current		Reference figure
	D_1	D_2	$D_1 + D_2$	I_F (mA)	I_R (μ A) max.	V_R (V)	
DA204K	1.0	1.0	2.0	10	0.1	15	Fig 1 to 3
DA204U	1.0	1.0	2.0	10	0.1	15	
DA210S	1.0	1.0	2.0	10	0.1	15	
DA216	1.0	1.0	2.0	10	0.1	15	
DAN217	1.2	1.2	-	100	0.1	70	Fig 4 and 5
DAN217C	1.2	1.2	-	100	0.1	70	
DA218S	1.2	1.2	-	100	0.1	70	
DA221	1.0	1.0	2.0	10	0.1	15	Fig 1 to 3
DA223	1.2	1.2	-	100	0.1	40	Fig 6 to 10

Electrical characteristic curves—DA204K, DA204U, DA210S, DA216, DA221

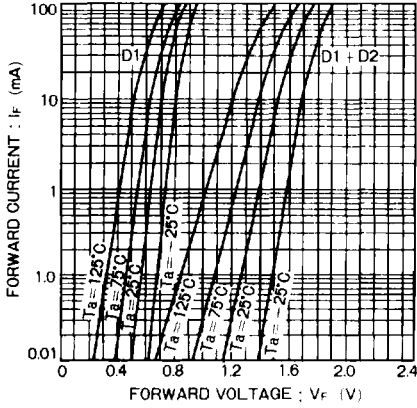


Figure 1

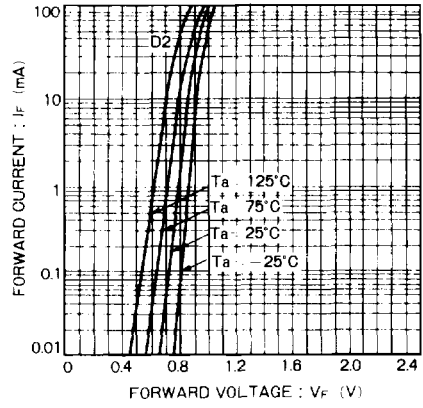


Figure 2

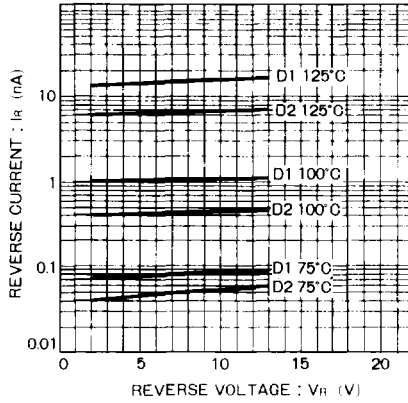


Figure 3

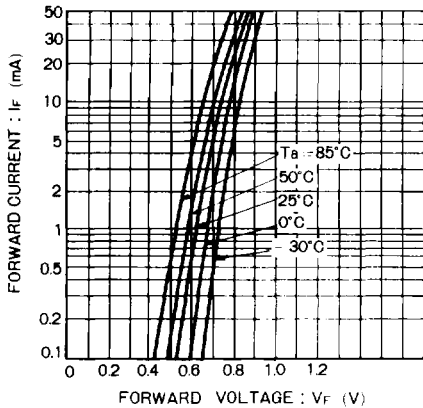


Figure 4 (DAN217, DAN217C, DA218S)

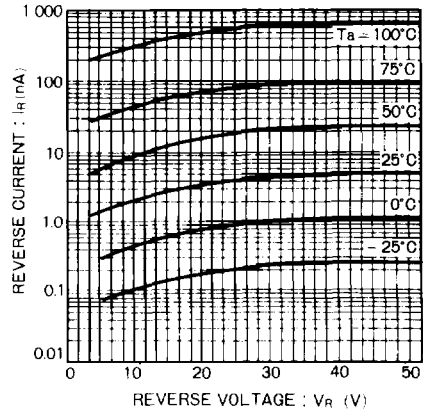


Figure 5

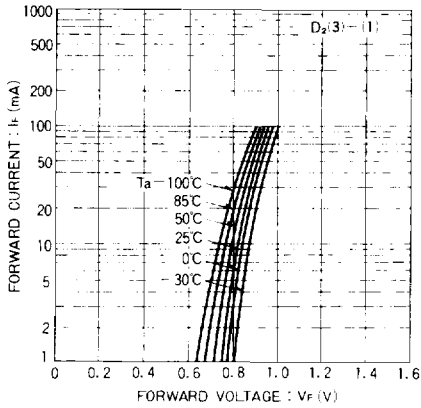


Figure 6 (DA223)

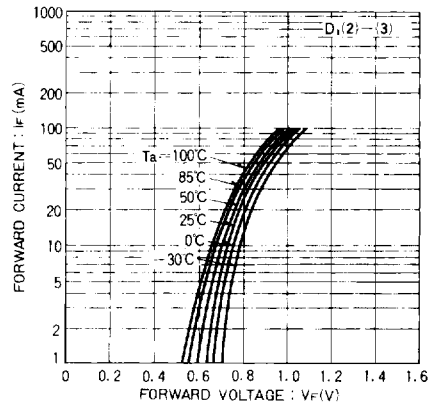


Figure 7

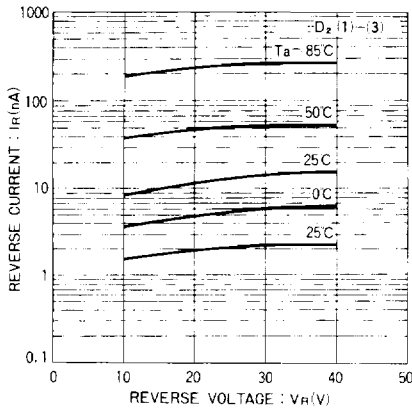


Figure 8

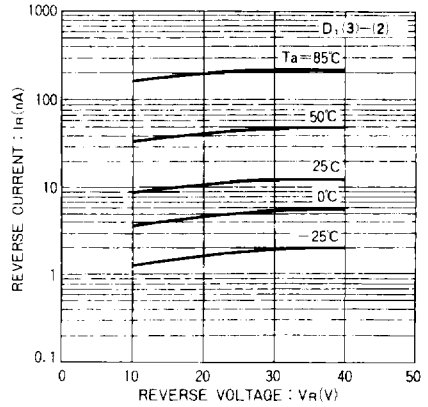


Figure 9

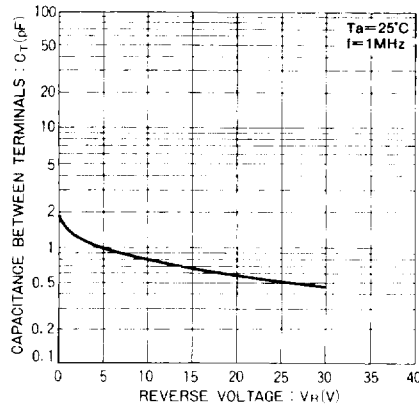


Figure 10