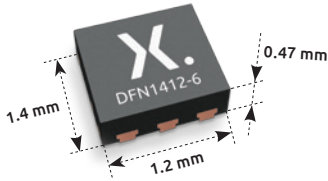


DFN1412-6

A new (double) package standard

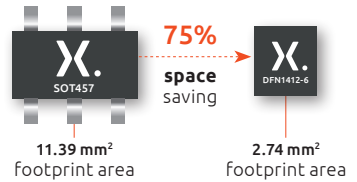
With its low height, high-performance and large portfolio the DFN1412-6 (SOT1268) gives you a double advantage for your system's diodes and transistors.

Ultra-small double package



- › Leadless, ultra-small double package
- › Small 1.4 x 1.2 mm footprint, only 0.47 mm high
- › 0.5 mm Pitch
- › Surface-Mounted Device (SMD) plastic package
- › AEC-Q101 qualified

Benchmark performance/size



- › Excellent thermal performance
- › SOT457 performance from a smaller package
- › High P_{tot} capability (500 mW per device)

Large portfolio



1-stop-shop

- › Standard switching diodes (BAV70SRA & BAW56SRA)
- › 100 and 500 mA double transistors (BC847/857/807/817)
- › 100 mA digital transistors (RETS - Resistor-Equipped-Transistors)
- › Can replace SOT666, SOT363 or SOT457



Application flexibility





- › Mobile and wearable
- › Space restricted systems

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DFN1412-6 Product range

Transistors double						
Polarity	V_{CE0} (V)	I_C (mA)	h_{FE} min	h_{FE} max	f_T min (MHz)	
NPN	45	100	200	450	100	BC847RA
	45	500	160	400	100	BC817RA
PNP	45	100	200	450	100	BC857RA
	45	500	160	400	80	BC807RA
NPN/PNP	45	100	200	450	100	BC847RAPN
	45	500	160	160	100/80	BC817RAPN

RETs 100 mA double							
V_{CE0} (V)	I_C (mA)	Configuration	R1 (k Ω)	R2 (k Ω)	NPN / NPN	NPN / PNP	PNP / PNP
50	100	R1 = R2	10	10	PRMH11	PRMD3	PRMB11
			22	22		PRMD2	
			47	47	PRMH2	PRMD12	
		R1 \neq R2	2.2	47	PRMH10	PRMD10	
			4.7	47	PRMH13	PRMD13	
			10	47	PRMH9		
			22	47		PRMD16	

Switching diodes							
V_R (max)	V_F (max)	@ I_F (mA)	I_R max (nA)	@ V_R (V)	t_{rr} max (ns)		
100	1	50	500	80	4		BAV70SRA
90	1	50	500	80	4		BAW56SRA

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