

# HiRel Silicon Bipolar Transistor technology

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Infineon's well known and widely used Micro Wave (MW) Transistors are here offered as High Reliability devices in hermetically sealed ceramic packages. The product range covers all RF-Transistor technology generations of Infineon. Bipolar Transistors with Different Voltage classes, Frequency range and output power are available and based on Infineon's reliable bipolar technology.

The Bipolar Transistor devices are available in different quality levels:

- Professional (P) which is used for breadboards and circuit evaluation (Engineering Modules)
- ESCC qualified (ES) which fulfills the requirements of the European Space Agency (Flight Modules)
- On request customer specific quality levels could be set up depending on demand

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Product	OPN	Product Status	Order Online	Comments	V <sub>CEO</sub>	I <sub>C</sub>	P <sub>tot</sub>	f <sub>T</sub>
Matching Results: 29		active and preferred		Chip for BFY193C Chip for BFY196 Chip for BFY420 Chip for BFY450	max 4.0 V 4.5 V 12.0 V	max 12.0 mA 20.0 mA 30.0 mA 35.0 mA	max 55.0 mW 120.0 mW 160.0 mW 175.0 mW	6.5 GHz 8.0 GHz 22.0 GHz 40.0 GHz
> BFY181 (ES)		active and preferred	-		12.0 V	20.0 mA	175.0 mW	8.0 GHz
> BFY181 (P)		active and preferred	-		12.0 V	20.0 mA	175.0 mW	8.0 GHz
> BFY182 (ES)		active and preferred	-		12.0 V	35.0 mA	250.0 mW	8.0 GHz
> BFY182 (P)		active and preferred	-		12.0 V	35.0 mA	250.0 mW	8.0 GHz
> BFY183 (ES)		active and preferred	-		12.0 V	65.0 mA	450.0 mW	8.0 GHz
> BFY183 (P)		active and preferred	-		12.0 V	65.0 mA	450.0 mW	8.0 GHz
> BFY193C (P)		active and preferred	-		12.0 V	80.0 mA	580.0 mW	8.0 GHz
> BFY193C (ES)		active and preferred	-		12.0 V	80.0 mA	580.0 mW	8.0 GHz
> BFY196 (ES)		active and preferred	-		12.0 V	100.0 mA	700.0 mW	6.5 GHz
> BFY196 (P)		active and preferred	-		12.0 V	100.0 mA	700.0 mW	6.5 GHz
> BFY405 (ES)		active and preferred	-		4.5 V	12.0 mA	55.0 mW	22.0 GHz
> BFY405 (P)		active and preferred	-		4.5 V	12.0 mA	55.0 mW	22.0 GHz
> BFY420 (ES)	BFY420ESZZA1	active and preferred	-		4.5 V	35.0 mA	160.0 mW	22.0 GHz
> BFY420 (P)		active and preferred	-		4.5 V	35.0 mA	160.0 mW	22.0 GHz

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Matching Results: 29		active and preferred		Chip for BFY193C Chip for BFY196 Chip for BFY420 Chip for BFY450	max 4.0 V 4.5 V 12.0 V	max 12.0 mA 20.0 mA 30.0 mA 35.0 mA	max 55.0 mW 120.0 mW 160.0 mW 175.0 mW	6.5 GHz 8.0 GHz 22.0 GHz 40.0 GHz
> BFY450 (ES)		active and preferred		-	4.5 V	100.0 mA	450.0 mW	22.0 GHz
> BFY450 (P)		active and preferred		-	4.5 V	100.0 mA	450.0 mW	22.0 GHz
> BFY640-04 (ES)		active and preferred		-	4.0 V	50.0 mA	200.0 mW	40.0 GHz
> BFY640-04 (P)	BFY64004PZZZA1	active and preferred		-	4.0 V	50.0 mA	200.0 mW	40.0 GHz
> BFY650B-11 (ES)		active and preferred		-	4.0 V	150.0 mA	600.0 mW	40.0 GHz
> BFY650B-11 (P)		active and preferred		-	4.0 V	150.0 mA	600.0 mW	40.0 GHz
> BFY740B-01 (ES)		active and preferred		-	4.0 V	30.0 mA	120.0 mW	42.0 GHz
> BFY740B-01 (P)		active and preferred		-	4.0 V	30.0 mA	120.0 mW	42.0 GHz
> CHIP T359C (P)		active and preferred		Chip for BFY193C	-	-	-	-
> CHIP T359C (ES)		active and preferred		Chip for BFY193C	-	-	-	-
> CHIP T395 (P)		active and preferred		Chip for BFY196	-	-	-	-
> CHIP T395 (ES)		active and preferred		Chip for BFY196	-	-	-	-
> CHIP T502 (ES)		active and preferred		Chip for BFY420	-	-	-	-
> CHIP T503 (P)		active and preferred		Chip for BFY450	-	-	-	-
> CHIP T503 (ES)		active and preferred		Chip for BFY450	-	-	-	-

