

Features

- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- StorageTemperature Range: -55°C to +150°C
- Thermal Resistance: 250°C/W Junction to Ambient (Note1)

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	100	V
Collector-Emitter Voltage	V _{CEO}	80	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	Ι _C	1.0	А
Base Current	I _B	0.1	А
Peak Base Current (t _p <1ms)	I _{BM}	0.2	А
		0.50 ^(Note2)	
Collector Power Dissipation	Pc	0.95 ^(Note3)	W
		1.35 ^(Note4)	

Classification Of h_{FE(1)}

Rank	BCX56	BCX56-10	BCX56-16
Range of h _{FE(1)}	63-250	63-160	100-250
Marking	BH	BK	BL

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Note:2. Device mounted on an FR4 PCB, Single-sided copper, tin-plated and standard footprint.

Note:3. Device mounted on an FR4 PCB, Single-sided copper, mounting pad for collector 1cm²

Note:4.Device mounted on an FR4 PCB, Single-sided copper, mounting pad for collector 6cm²

Pin Configuration - Top View

Internal Structure









Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	100			V	Ι _C =100μΑ, Ι _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	80			V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	I _E =10μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			0.1	μA	$V_{CB}=30V, I_{E}=0$
Emitter-Base Cutoff Current	I _{EBO}			0.1	μA	$V_{EB}=5.0V, I_{C}=0$
DC Current Gain	h _{FE(1)}	63		250		V _{CE} =2.0V, I _C =150mA
	h _{FE(2)}	40				V_{CE} =2.0V, I_{C} =5mA
	h _{FE(3)}	25				V _{CE} =2.0V, I _C =500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.5	V	I _C =500mA, I _B =50mA
Base-Emitter Voltage	V _{BE}			1.0	V	V _{CE} =2.0V, I _C =500mA
Transition Frequency	f _T		130		MHz	V _{CE} =5.0V, I _C =10mA, f=100MHz



BCX56/BCX56-10/BCX56-16

Curve Characteristics





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