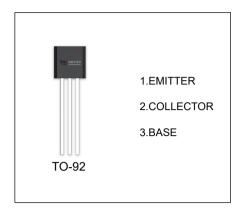


2SB1116 / 2SB1116A TRANSISTOR (PNP)

FEATURES

- High Collector Power Dissipation .Complementary to 2SD1616/2SD1616A



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SB1116	TO-92	Bulk	1000pcs/Bag
2SB1116-TA	TO-92	Tape	2000pcs/Box
2SB1116A	TO-92	Bulk	1000pcs/Bag
2SB1116A-TA	TO-92	Таре	2000pcs/Box

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter		Value	Unit	
V	Collector-Base Voltage	2SB1116	-60	\/	
V _{CBO}	2	2SB1116A	-80	V	
V	Collector-Emitter Voltage	2SB1116	-50		
V _{CEO}	2	2SB1116A	-60	V	
V _{EBO}	Emitter-Base Voltage		-6	V	
Ic	Collector Current -Continuous		-1	А	
Pc	Collector Power Dissipation		0.75	W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range		-55-150	°C	



Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA,I _E =0	2SB1116 2SB1116A	-60 -80			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	2SB1116 2SB1116A	-50 -60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA,I _C =0		-6			V
Collector cut-off current		V _{CB} =-60V,I _E =0	2SB1116			0.1	
Collector cut-on current	I _{CBO}	V _{CB} =-60V,I _E =0	2SB1116A			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-6V,I _C =0				-0.1	μA
DC comment soin	h _{FE(1)}	V _{CE} =-2V,I _C =-0.1A		135		600	
DC current gain	h _{FE(2)}	V _{CE} =-2V,I _C =-1A		81			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-1A,I _B =-50mA				-0.3	V
Base -emitter saturation voltage	V _{BE(sat)}	I _C =-1A,I _B =-50mA				-1.2	V
Base -emitter voltage	V_{BE}	V _{CE} =-2V,I _C =-0.05A		-0.6		-0.7	V
Transition frequency	f _T	V _{CE} =-2V,I _C =-0.1A		70			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,I _E =0,f=1MHz			25		pF
Turn-on time	t _{on}	V _{CC} =-10V,I _C =-0.1A,I _{B1} =-I _{B2} =-0.01A, V _{BE(Off)} =2to3V			0.07		us
Storage time	t _s				0.7		us
Fall time	t _f				0.07		us

CLASSIFIC ATION OF h $_{\text{FE}(1)}$

Rank	L	К	U
Range	135-270	200-400	300-600



