

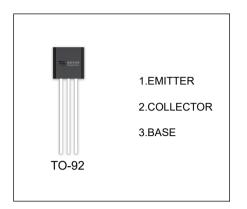
MPSA43 TRANSISTOR (NPN)

FEATURES

- Low Current
- High Voltage

APPLICATIONS

- Video
- Telephony
- Professional Communication Equipment



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
MPSA43	TO-92	Bulk	1000pcs/Bag
MPSA43-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current	0.2	Α
Pc	Collector Power Dissipation	625	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	sistance From Junction To Ambient 200	
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃



Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	200			V
Collector-emitter breakdown voltage	V _{(BR)CEO} *	I _C =1mA,I _B =0	200			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =160V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			0.1	μA
DC current gain	h _{FE(1)} *	V _{CE} =10V, I _C =1mA	25			
	h _{FE(2)} *	V _{CE} =10V, I _C =10mA	40		200	
	h _{FE(3)} *	V _{CE} =10V, I _C =30mA	50			
Collector-emitter saturation voltage	V _{CE(sat)(1)} *	I _C =20mA,I _B =2mA			0.4	V
Base-emitter saturation voltage	V _{BE (sat)} *	I _C =20mA, I _B =2mA			0.9	V
Transition frequency	f _T	V _{CE} =20V,I _C =10mA,f=100MHz	50			MHz
Collector output capacitance	Cob	V _{CB} =20V,I _E =0, f=1MHz			4	pF

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.