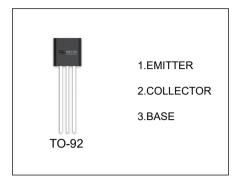


MPSA29 TRANSISTOR (NPN)

FEATURES

Darlington Transistor



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
MPSA29	TO-92	Bulk	1000pcs/Bag
MPSA29-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	100	V
V _{CES}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	12	V
Ic	Collector Current	0.5	Α
Pc	Collector Power Dissipation	625	mW
R _{0JA}	Thermal Resistance From Junction To Ambient 20		°C/W
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	100			V
Collector-emitter breakdown voltage	V _{(BR)CES}	I _C =0.1mA,V _{BE} =0	100			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA,I _C =0	12			V
Collector cut-off current	I _{CBO}	V _{CB} =80V,I _E =0			0.1	μA
Collector cut-off current	I _{CES}	V _{CE} =80V,I _E =0			0.5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =10V,I _C =0			0.1	μA
DC comment main	h _{FE(1)} *	V _{CE} =5V, I _C =10mA	10000			
DC current gain	h _{FE(2)} *	V _{CE} =5V, I _C =100mA	10000			
Collector emitter esturation valters	V _{CE(sat)(1)} *	I _C =10mA,I _B =0.01mA			1.2	V
Collector-emitter saturation voltage	V _{CE(sat)(2)} *	I _C =100mA,I _B =0.1mA			1.5	V
Base-emitter voltage	V _{BE} *	V _{CE} =5V,I _C =100mA			2.0	V
Transition frequency	f _T	V _{CE} =5V,I _C =10mA,f=100MHz	125			MHz
Collector output capacitance	Cob	V _{CB} =10V,I _E =0, f=1MHz			8	pF

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



