

MPSA92 & MPSA93 Silicon PNP Transistors High Voltage, General Purpose Amplifier TO-92 Type Package

Absolute Maximum Ratings: (Note 1)
Collector-Emitter Voltage, V _{CEO}
MPSA93 200V
MPSA92 300V
Collector-Base Voltage, V _{CB} O
MPSA93
MPSA92 300V
Emitter–Base Voltage, V _{EBO}
Continuous Collector Current, I _C 500mA
Total Device Dissipation @ $T_A = +25$ °C, P_D
Derate Above +25°C 5mW/°C
Total Device Dissipation @ $T_C = +25$ °C, P_D
Derate Above +25°C
Operating Junction Temperature Range, T _J 55° to +150°C
Storage Temperature Range, T _{stq}
Thermal Resistance, Junction-to-Ambient, R _{th,JA}
Thermal Resistance, Junction-to-Case, R _{thJC}
Note 1. Stresses exceeding Absolute Maximum ratings may damage the device. Absolute Maximum

Note 1. Stresses exceeding Absolute Maximum ratings may damage the device. Absolute Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

<u>Electrical Characteristics:</u> (T_A = +25°C unless otherwise specified)

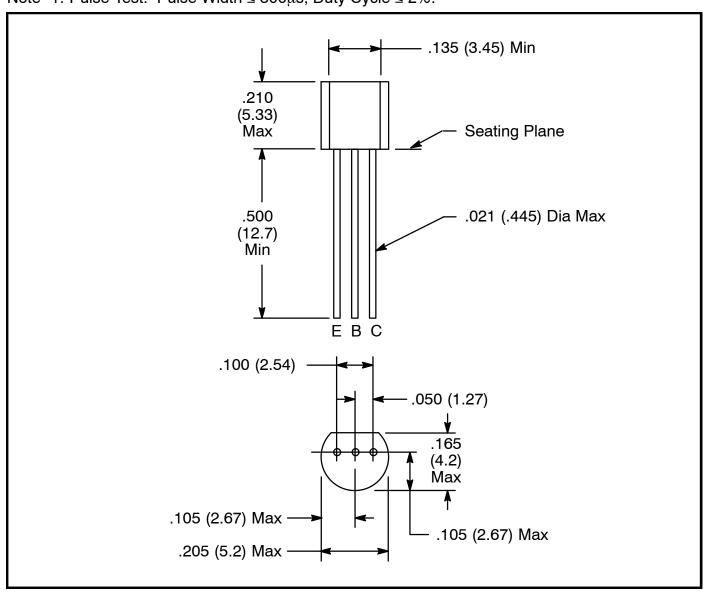
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit			
OFF Characteristics									
Collector-Emitter Breakdown Voltage MPSA92	V _{(BR)CEO}	I _C = 1mA, I _B = 0, Note 2	300	_	_	V			
MPSA93			200	-	-	V			
Collector-Base Breakdown Voltage MPSA92	V _{(BR)CBO}	$I_C = 100\mu A, I_E = 0$	300	_	_	V			
MPSA93			200	_	_	V			
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	$I_E = 100 \mu A, I_C = 0$	5	_	_	V			
Collector Cutoff Current MPSA92	I _{CBO}	V _{CB} = 200V, I _E = 0	_	_	0.25	μΑ			
MPSA93		V _{CB} = 160V, I _E = 0	_	_	0.25	μΑ			
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 3V, I_{C} = 0$	_	_	0.1	μΑ			

Note 2. Pulse Test: Pulse Width $\leq 300 \mu s$, Duty Cycle $\leq 2\%$.

<u>Electrical Characteristics (Cont'd)</u>: $(T_A = +25^{\circ}C)$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit				
ON Characteristics (Note 2)										
DC Current Gain	h _{FE}	I _C = 1mA, V _{CE} = 10V	25	_	_					
		I _C = 10mA, V _{CE} = 10V	40	_	_					
		$I_C = 30$ mA, $V_{CE} = 10$ V	25	_	_					
Collector–Emitter Saturation Voltage MPSA92	V _{CE(sat)}	I _C = 20mA, I _B = 2mA	_	_	0.5	٧				
MPSA93			_	_	0.4	V				
Base-Emitter Saturation Voltage	V _{BE(sat)}	$I_C = 20\text{mA}, I_B = 2\text{mA}$	_	_	0.9	V				
Small-Signal Characteristics										
Current Gain – Bandwidth Product	f _T	$I_C = 10$ mA, $V_{CE} = 20$ V, $f = 100$ MHz	50	_	_	MHz				
Collector-Base Capacitance MPSA92	C _{cb}	V _{CB} = 20V, I _E = 0, f = 1MHz		_	6	рF				
MPSA93			_	_	8	pF				

Note 1. Pulse Test: Pulse Width $\leq 300 \mu s$, Duty Cycle $\leq 2\%$.



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