

查询MPS-A42供应商

NPN SILICON GENERAL PURPOSE HIGH VOLTAGE TRANSISTORS  
 捷多邦, 专业PCB打样工厂, 24小时加急出货

**MICRO ELECTRONICS**

CASE TO-92A

THE MPS-A42, MPS-A43 ARE NPN SILICON PLANAR TRANSISTORS FOR GENERAL PURPOSE HIGH VOLTAGE APPLICATIONS SUCH AS TV VIDEO OUTPUT STAGE AND GAS DISCHARGE TUBE DRIVER.



ABSOLUTE MAXIMUM RATINGS

		MPS-A42	MPS-A43
Collector-Base Voltage	V <sub>CB0</sub>	300V	200V
Collector-Emitter Voltage	V <sub>CEO</sub>	300V	200V
Emitter-Base Voltage	V <sub>EBO</sub>	6V	6V
Collector Current	I <sub>C</sub>		100mA
Collector Peak Current (t ≤ 10ms)	I <sub>CM</sub>		500mA
Total Power Dissipation (T <sub>C</sub> ≤ 25°C)	P <sub>tot</sub>		1.5W
			625mW
Operating Junction & Storage Temperature	T <sub>j</sub> , T <sub>stg</sub>	-55 to 150°C	

ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C)

PARAMETER	SYMBOL	MPS-A42 MIN MAX	MPS-A43 MIN MAX	UNIT	TEST CONDITIONS
Collector-Base Breakdown Voltage	BVCBO	300	200	V	I <sub>C</sub> =0.1mA I <sub>E</sub> =0
Collector-Emitter Breakdown	LV <sub>CEO</sub>	300	200	V	I <sub>C</sub> =1mA I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BVEBO	6	6	V	I <sub>E</sub> =0.1mA I <sub>C</sub> =0
Collector Cutoff Current	ICBO	0.1	0.1	μA	V <sub>CB</sub> =200V I <sub>E</sub> =0
				μA	V <sub>CB</sub> =160V I <sub>E</sub> =0
Emitter Cutoff Current	IEBO	0.1	0.1	μA	V <sub>EB</sub> =6V I <sub>C</sub> =0
				μA	V <sub>EB</sub> =4V I <sub>C</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	0.5	0.4	V	I <sub>C</sub> =20mA I <sub>B</sub> =2mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	0.9	0.9	V	I <sub>C</sub> =20mA I <sub>B</sub> =2mA
D.C. Current Gain	HFE	25 40 40	25 40 50 200		I <sub>C</sub> =1mA V <sub>CE</sub> =10V I <sub>C</sub> =10mA V <sub>CE</sub> =10V I <sub>C</sub> =30mA V <sub>CE</sub> =10V
Current Gain-Bandwidth Product	f <sub>T</sub>	50	50	MHz	I <sub>C</sub> =10mA V <sub>CE</sub> =20V
Collector-Base Capacitance	C <sub>cb</sub>	3	4	pF	V <sub>CB</sub> =20V I <sub>E</sub> =0 f=1MHz

**MICRO ELECTRONICS LTD.**

38 HUNG TO ROAD, KWUN TONG, HONG KONG. TELEX 43510  
 KWUN TONG P. O. BOX 69477 CABLE ADDRESS "MICROTRON"  
 TELEPHONE: 3-430181-6 3-893363 3-892423

FAX: 3-410321



TYPICAL CHARACTERISTICS

( $T_A=25^\circ\text{C}$  unless otherwise noted)

