

D45H5 D45H8 \ D45H11

PNP SILICON POWER TRANSISTORS

- STM PREFERRED SALESTYPES
- LOW COLLECTOR-EMITTER SATURATION VOLTAGE
- FAST SWITCHING SPEED

APPLICATIONS

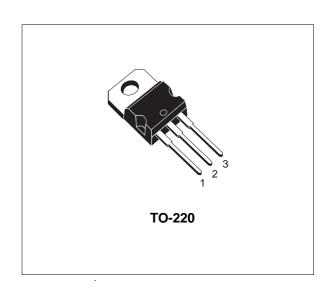
- GENERAL PURPOSE SWITCHING
- GENERAL PURPOSE SWITCHING AND AMPLIFIER

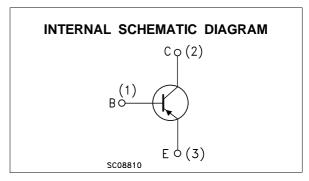
DESCRIPTION

The D45H5, D45H8 and D45H11 are silicon multiepitaxial planar PNP transistors mounted in Jedec TO-220 plastic package.

They are inteded for various switching and general purpose applications.

D45H8, D45H11 are complementary with D44H8, D44H11.





ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter		Value			
		D45H5	D45H8	D45H11		
V _{CEO}	Collector-Emitter Voltage (I _B = 0)	-45	-60	-80	V	
V _{EBO}	Emitter-Base Voltage (I _C = 0)		-5			
Ic	Collector Current		-10			
I _{CM}	Collector Peak Current		-20			
I _B	Base Current		-5		Α	
P _{tot}	Total Dissipation at T _c ≤ 25 °C	50		W		
T _{stg}	Storage Temperature		-65 to 150		°C	
Tj	Max. Operating Junction Temperature		150			

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D45H5/D45H8/D45H11

THERMAL DATA

R _{thj-case} Thermal Resistance Junction-case	Max	2.5	°C/W
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ELECTRICAL CHARACTERISTICS ($T_{case} = 25$ $^{\circ}C$ unless otherwise specified)

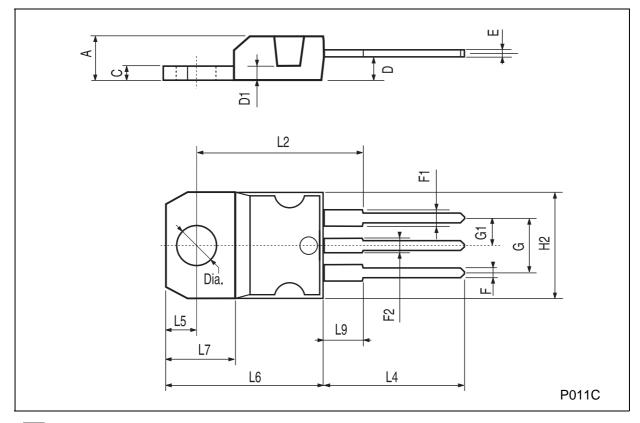
Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Ісво	Collector Cut-off Current (I _E = 0)	V _{CB} = rated V _{CEO}			-10	μΑ
I _{EBO}	Emitter Cut-off Current (I _C = 0)	V _{EB} = -5V			-100	μΑ
V _{CEO(sus)} *	Collector-Emitter Sustaining Voltage	I _C = -100 mA for D45H5 for D45H8 for D45H11	-45 -60 -80			V V
V _{CE(sat)} *	Collector-Emitter Saturation Voltage	I _C = -8 A			-1 -1	V V
$V_{BE(sat)^*}$	Base-Emitter Saturation Voltage	I _C = -8 A I _B = -0.8 A			-1.5	V
h _{FE} *	DC Current Gain	I _C = -2 A	60 40	120 70		

^{*} Pulsed: Pulse duration = 300 μs, duty cycle ≤ 2 %

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TO-220 MECHANICAL DATA

DIM.	mm			inch		
DIIVI.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
Α	4.40		4.60	0.173		0.181
С	1.23		1.32	0.048		0.051
D	2.40		2.72	0.094		0.107
D1		1.27			0.050	
E	0.49		0.70	0.019		0.027
F	0.61		0.88	0.024		0.034
F1	1.14		1.70	0.044		0.067
F2	1.14		1.70	0.044		0.067
G	4.95		5.15	0.194		0.203
G1	2.4		2.7	0.094		0.106
H2	10.0		10.40	0.393		0.409
L2		16.4			0.645	
L4	13.0		14.0	0.511		0.551
L5	2.65		2.95	0.104		0.116
L6	15.25		15.75	0.600		0.620
L7	6.2		6.6	0.244		0.260
L9	3.5		3.93	0.137		0.154
DIA.	3.75		3.85	0.147		0.151



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