

D45H5 D45H8 \ D45H11

PNP SILICON POWER TRANSISTORS

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

APPLICATIONS

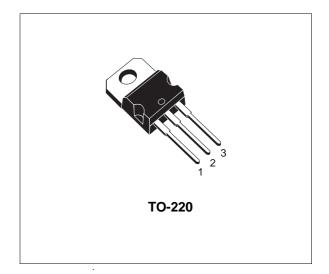
- GENERAL PURPOSE SWITCHING
- GENERAL PURPOSE SWITCHING AND AMPLIFIER

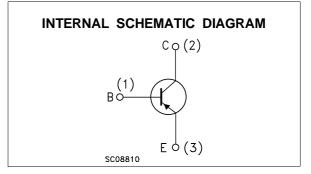
DESCRIPTION

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		
VCEO	Collector-Emitter Voltage $(I_B = 0)$	-45	-60	-80	V	
Vebo	Emitter-Base Voltage $(I_C = 0)$		-5		V	
lc	Collector Current	-10			А	
Ісм	Collector Peak Current	-20		А		
Ι _Β	Base Current		-5			
P _{tot}	Total Dissipation at $T_c \le 25$ °C		W			
T _{stg}	Storage Temperature		-65 to 150			
Tj	Max. Operating Junction Temperature	150		°C		

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)

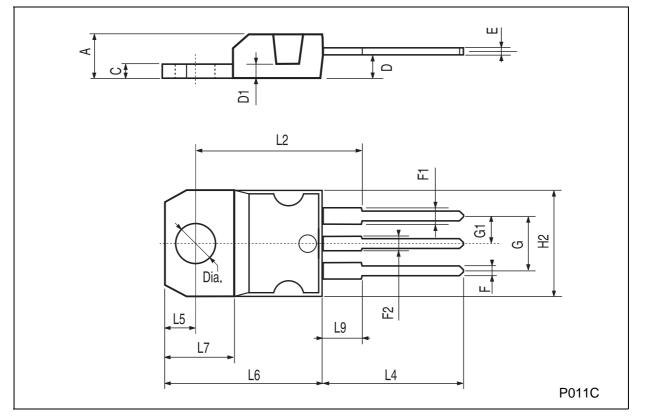
Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
I _{СВО}	Collector Cut-off Current ($I_E = 0$)	V_{CB} = rated V_{CEO}			-10	μA
I _{EBO}	Emitter Cut-off Current $(I_C = 0)$	V _{EB} = -5V			-100	μA
$V_{CEO(sus)}^{*}$	Collector-Emitter Sustaining Voltage	Ic = -100 mA for D45H5 for D45H8 for D45H11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

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 \ast Pulsed: Pulse duration = 300 $\mu s,$ duty cycle \leq 2 %

DIM.	mm			inch			
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
А	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		
Е	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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