

ISC Silicon PNP Power Transistors

D45H11

DESCRIPTION

- Low Collector-Emitter Saturation Voltage
- : $V_{CE(sat)}$ = 1.0V(Max)@ I_C = 8A
- Fast Switching Speeds
- Complement to Type D44H11
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

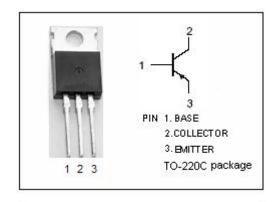
 Designed for general pourpose power amplification and switching such as output or driver stages in applications such as switching regulators, converters and power amplifier.

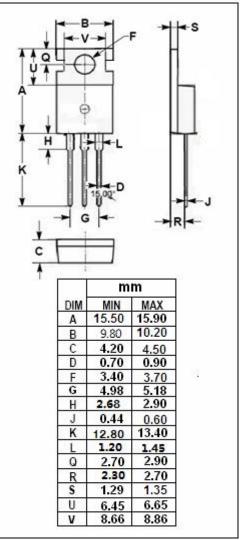


SYMBOL	PARAMETER	VALUE	UNIT
Vceo	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous -10		Α
I _{CM}	Collector Current-Peak	-20	Α
Pc	Collector Power Dissipation @T _C =25℃	50	W
T _j	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	75	°C/W







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CE(sat)}	Collector-EmitterSaturation Voltage	I _C = -8A ;I _B = -0.4 A			-1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -8A ;I _B = -0.8 A			-1.5	V
Ices	Collector Cutoff Current	V _{CE} =Rated V _{CEO} ; V _{BE} = 0			-10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	μА
h _{FE-1}	DC Current Gain	I _C = -2A ; V _{CE} = -1V	60			
h _{FE-2}	DC Current Gain	Ic= -4A; Vc== -1V	40			
Сов	Output Capacitance	V _{CB} = -10V,f= 1.0MHz		230		pF
f⊤	Current-Gain—Bandwidth Product	I _C =-0.5A;V _{CE} =-10V;f _{test} =20MHz		40		MHz

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