

isc Silicon PNP Power Transistors

D45H2A

DESCRIPTION

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

APPLICATIONS

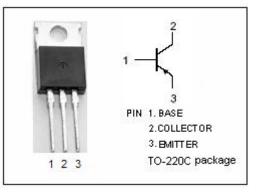
• This device is designed for power amplifier, regulator and Switching circuits where speed is important

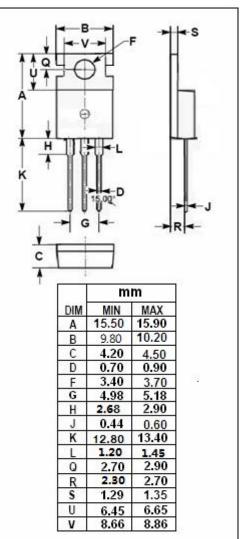
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CEO}	Collector-Emitter Voltage	-30	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-8	А
Ісм	Collector Current-Peak	-16	А
Pc	Collector Power Dissipation @T _c =25°C	60	W
Tj	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth j-c	Thermal Resistance, Junction to Case	2.1	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	62.5	°C/W







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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	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
I _{CES}	Collector Cutoff Current	V_{CE} =Rated V_{CEO} ; V_{BE} = 0			-10	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	μ Α
h _{FE-1}	DC Current Gain	I _C = -8A ; V _{CE} = -5V	100			
h _{FE-2}	DC Current Gain	Ic= -10A ; Vce= -5V	80			
h _{FE-3}	DC Current Gain	Ic= -12A ; Vce= -5V	65			
f⊤	Current-Gain—Bandwidth Product	I _C =-0.5A;V _{CE} =-10V;		25		MHz

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