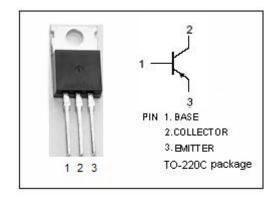


isc Silicon PNP Power Transistors

D45H10

DESCRIPTION

- Low Saturation Voltage
- · Fast Switching Speeds
- Complement to Type D44H10
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

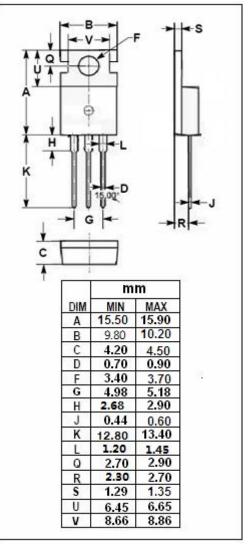
 Designed for general pourpose power amplification and switching such as output or driver stages in applications such as switching regulators, converters and power amplifier.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

	(La 200)							
SYMBOL	PARAMETER	VALUE	UNIT					
V _{CEO}	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°C	-50	W					
Tj	Junction Temperature	150	$^{\circ}$					
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$					

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





isc Silicon PNP Power Transistors

D45H10

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -8A ;I _B = -0.8 A			-1	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} ;			-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	35					
h _{FE-2}	DC Current Gain	Ic= -4A; Vc== -1V	20					
СОВ	Output Capacitance	V _{CB} = -10V,f= 0.1MHz		230		pF		
f⊤	Current-Gain—Bandwidth Product	I _C =-0.5A;V _{CE} =-10V;f _{test} =20MHz	30			MHz		
Switching Times								
ts	Storage Time	I _C = -5A; I _{B1} = -I _{B2} = -0.5A V _{CC} = 20V		0.5		μS		
t _f	Fall Time			0.10		μS		

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