

isc Silicon PNP Power Transistors

DESCRIPTION

- Low Saturation Voltage
- Good Linearity of hFE
- · Fast Switching Speeds
- Complement to Type D44C2
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

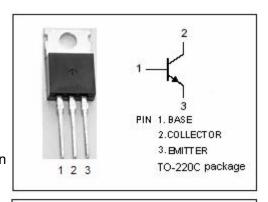
 Designed for various specific and general purpose application such as: output and driver stages of amplifiers operating at frequencies from DC to greater than 1.0MHz series, shunt and switching regulators; low and high frequency inverters/ converters and many others.

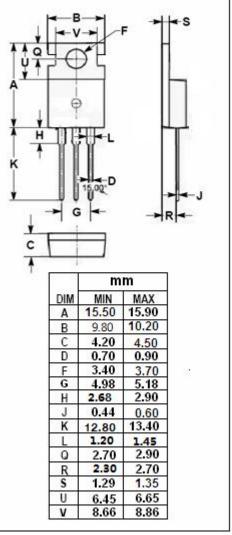


SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector-Emitter Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-30	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-4	Α
I _{CM}	Collector Current-Peak	-6	Α
lΒ	Base Current-Continuous	-1	Α
Pc	Collector Power Dissipation @T _C =25°C	30	W
T _j	Junction Temperature	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	4.2	°C/W







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D45C2

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -50mA			-0.5	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -1A; I _B = -100mA			-1.3	V		
I _{CES}	Collector Cutoff Current	V _{CE} = -40V, 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 = -0.2A; V _{CE} = -1V	40		120			
h _{FE-2}	DC Current Gain	I _C = -1A; V _{CE} = -1V	20					
f⊤	Current-Gain—Bandwidth Product	I _C = -20mA;V _{CE} = -4V;f _{test} = 1MHz		40		MHz		
Switching Times								
t _r	Rise Time				0.2	μ \$		
ts	Storage Time	I _C = -1A; I _{B1} = -I _{B2} = -0.1A; V _{CC} = -20V			0.6	μS		
tf	Fall Time				0.3	μs		

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isc website: www.iscsemi.cn

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