

isc Silicon NPN Power Transistor

2SD1717

DESCRIPTION

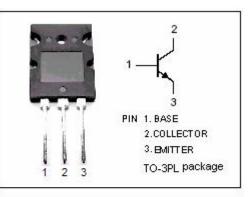
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 160V(Min.)
- Good Linearity of hFE
- Wide Area of Safe Operation
- Complement to Type 2SB1162
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

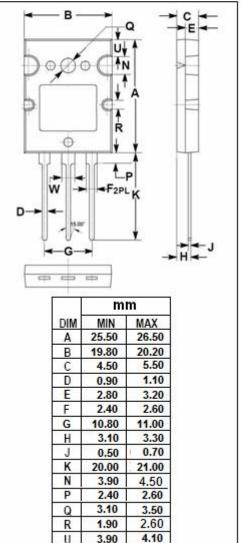
APPLICATIONS

• Designed for high power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)					
SYMBOL	PARAMETER	VALUE	UNIT		
V _{CBO}	Collector-Base Voltage 160		V		
V _{CEO}	Collector-Emitter Voltage 160		V		
V _{EBO}	Emitter-Base Voltage 5		V		
lc	Collector Current-Continuous 12		А		
ICP	Collector Current-Pulse	Current-Pulse 20			
Pc	Collector Power Dissipation @ Tc=25℃	120	W		
	Collector Power Dissipation @ $T_a=25^{\circ}C$	3.5	vv		
TJ	Junction Temperature	150	°C		
T _{stg}	Storage Temperature Range	-55~150	°C		

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)





isc website: <u>www.iscsemi.com</u>

W

2.90

3.25



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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 0.8A			2.0	V
V _{BE(on)}	Base -Emitter On Voltage	I _C = 8A; V _{CE} = 5V			1.8	V
Ісво	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			50	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			50	μA
h _{FE-1}	DC Current Gain	Ic= 20mA; Vce= 5V	20			
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 5V	60		200	
h _{FE-3}	DC Current Gain	I _C = 8A; V _{CE} = 5V	20			
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		210		pF
fT	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V		20		MHz

h_{FE-2} Classifications

Q	S	Р
60-120	80-160	100-200

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