

ISC Silicon NPN Power Transistor

2SD388

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 120V (Min)
- · High Switching Speed
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

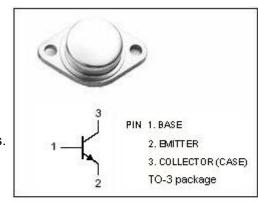


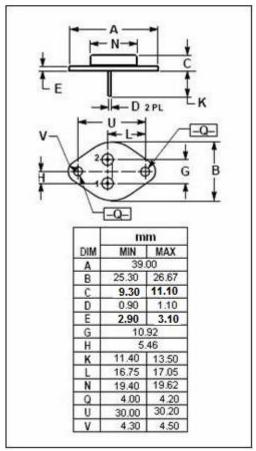
APPLICATIONS

• Designed for use in power amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MAX	UNIT	
V _{CBO}	Collector-Base Voltage	150	V	
V _{CEO}	Collector-Emitter Voltage	120	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	8	А	
Ісм	Collector Current-Peak	12	А	
Pc	Collector Power Dissipation @T _C =25°C	80	W	
T _j	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; R _{BE} = ∞	120			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			0.8	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A; V _{CE} = 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 150V; I _E = 0			0.1	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	mA
h _{FE} -1	DC Current Gain	I _C = 1A; V _{CE} = 5V	60		320	
h _{FE} -2	DC Current Gain	I _C = 5A; V _{CE} = 5V	20			
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		9		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V,f _{test} = 1MHz		190		pF



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