

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

2SD1265

DESCRIPTION

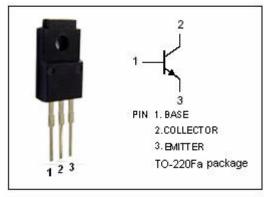
- Low Collector Saturation Voltage : V_{CE(sat)}= 1.0V(Max)@ I_C= 2A
- Collector-Emitter Sustaining Voltage-: V_{CEO(SUS)}= 60V (Min)
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

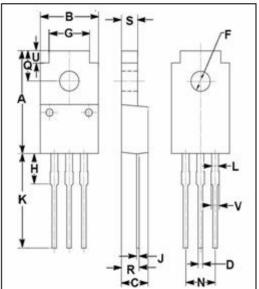
APPLICATIONS

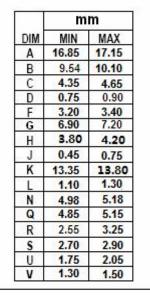
• Designed for power amplification.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{сво}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	8	V	
lc	Collector Current-Continuous	4	А	
Ісм	Collector Current-Peak	6	A	
I _B	Base Current-Continuous	1	A	
Pc	Collector Power Dissipation @ Tc=25℃	30	- w	
	Collector Power Dissipation @ $T_a=25^{\circ}C$	2		
TJ	Junction Temperature 150		°C	
T _{stg}	Storage Temperature Range -55~150		°C	







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



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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\!\!C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _c = 50mA; L= 25mH	60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A; V _{CE} = 3V			1.2	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 20V; I _B = 0			30	μA
Іево	Emitter Cutoff Current	V _{EB} = 8V; I _C = 0			1.0	mA
$h_{\text{FE-1}}$	DC Current Gain	I _C = 0.1A; V _{CE} = 3V	40			
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 3V	30		160	

♦ h_{FE-1} classifications

Q	Р	Р
30-60	50-100	80-160

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