

isc Silicon NPN Power Transistor

2SD218

DESCRIPTION

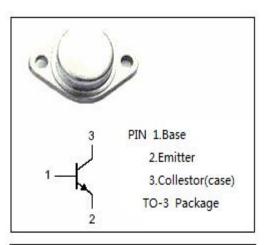
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 150V (Min)
- Low Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 1.5V (Max.)@ I_C= 7A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

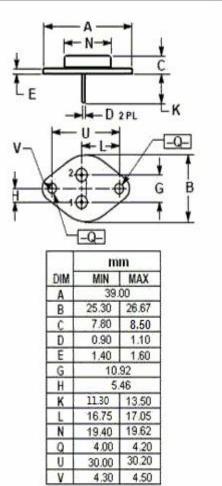
APPLICATIONS

- · Low saturation voltage
- Excellent current gain linearity

ABSOLUTE MAXIMUM R	RATINGS(Ta:	=25° C)
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SYMBOL	PARAMETER	МАХ	UNIT	
V _{CBO}	Collector-Base Voltage	150	V	
V _{CEO}	Collector-Emitter Voltage	100	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	7	A	
I _B	Base Current-Continuous	2	A	
Pc	Collector Power Dissipation @T _c =25°C	60	W	
Tj	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-65~150	°C	





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



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7A; I _B = 0.7A		0.6	1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 7A; I _B = 0.7A		1.2	1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 80V; I _E = 0			0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.5	mA
h _{FE-1}	DC Current Gain	I _C = 4A; V _{CE} = 5V	30	60	120	
h _{FE-2}	DC Current Gain	I _C = 7A; V _{CE} = 5V	20	40		
f⊤	Current-Gain—Bandwidth Product	I _C = 0.2A; V _{CE} = 10V		10		MHz

h_{FE-1}Classifications

М	L	К
30-60	45-90	60-120

NOTICE:

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