

isc Silicon NPN Power Transistor

2SC3719

DESCRIPTION

- High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 800V (Min)
- High Switching Speed
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

SYMBOL

 V_{CBO}

 V_{CEO}

 V_{EBO}

 I_{C}

Ісм

 I_B

 P_{C}

Tj

Tstq

Designed for high speed switching and horizontal deflection output applications.

MAX

1200

800

7

5

8

3

150

175

-65~175

UNIT

V

V

V

А

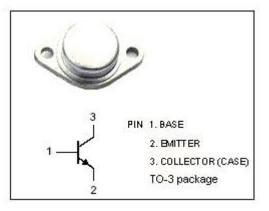
А

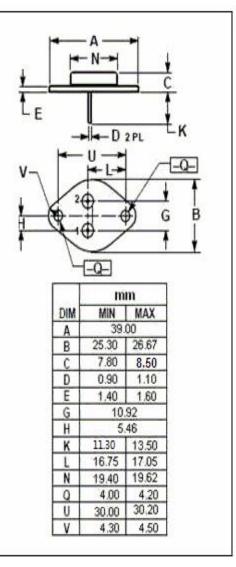
А

W

°C

°C





ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

Collector-Base Voltage

Collector-Emitter Voltage

Collector Current-Continuous

Emitter-Base Voltage

Collector Current-Peak

Base Current-Continuous

Collector Power Dissipation

Storage Temperature Range

Junction Temperature

@Tc=25°C

PARAMETER

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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	800			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			2.0	v
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 5V	6		20	
I _{CBO}	Collector Cutoff Current	V _{CB} = 1000V; I _E = 0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			0.1	mA

Switching Times

ton	Turn-On Time			1.0	μs
t _{stg}	Storage Time	I _C = 2A; I _{B1} = 0.4A; I _{B2} = -0.8A; V _{CC} = 250V		3.5	μs
t _f	Fall Time			0.3	μS

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