

isc Silicon NPN Power Transistor

DESCRIPTION

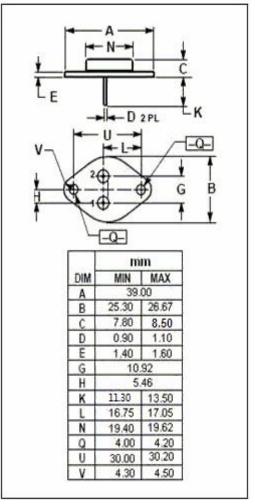
- · High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for power switching applications.

3 PIN 1.Base 2.Emitter 3.Collestor(case) TO-3 Package

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	1500	V				
V _{CEO}	Collector-Emitter Voltage	800	V				
V _{EBO}	Emitter-Base Voltage	6	V				
Ic	Collector Current- Continuous	5	А				
I _{CP}	Collector Current-Peak	7	А				
Pc	Collector Power Dissipation @ T _C T _C =25 °C	50	W				
TJ	Junction Temperature	150	$^{\circ}$				
T _{stg}	Storage Temperature Range	-45~150	$^{\circ}$				





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2SD1186

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; R _{BE} = ∞	800			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 = 4A; I _B = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			1.5	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V; R _{BE} = 0			0.5	mA
h _{FE}	DC Current Gain	I _C = 0.3A; V _{CE} = 5V	10		30	
t _f	Fall Time	Ic= 4A, I _{B1} = 0.8A, I _{B2} = 2A			1.0	μ S
t _{stg}	Storage Time			1.0		μ S

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