

isc Silicon NPN Power Transistor

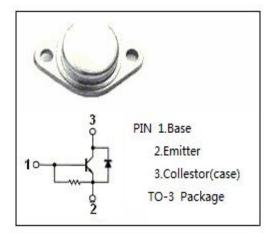
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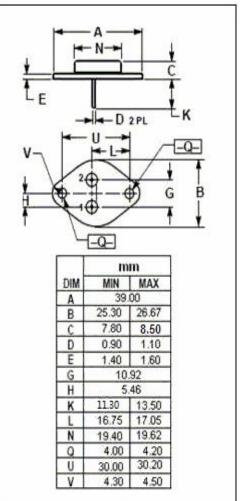
DESCRIPTION

- High Breakdown Voltage-
- : V_{CBO}= 1500V (Min)
- Collector-Emitter Saturation Voltage-: V_{CE(sat)}= 10V(Max.)@ I_C= 2.5A
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for horizontal deflection output applications.





ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	1500	V				
V _{CEO}	Collector-Emitter Voltage	600					
V _{EBO}	Emitter-Base Voltage	6	V				
Ιc	Collector Current- Continuous 3		А				
I _{CP}	Collector Current- Peak	6	А				
Pc	Collector Power Dissipation @ Tc= 25°C50		W				
TJ	Junction Temperature	150	°C				
T _{stg}	Storage Temperature Range	-40~150	°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.	MAX	UNIT
V _{CEO} (SUS)	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0; L= 35mH	600			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	6			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.6A			10	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.6A			1.3	V
I _{CES}	Collector Cutoff Current	V _{CB} = 1500V; V _{EB} = 0			1.0	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0	44		133	mA
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 5V	3		15	

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