

isc Silicon NPN Power Transistor

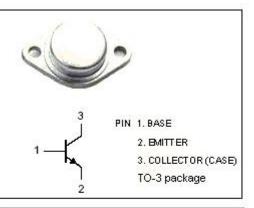
MJ13334

DESCRIPTION

- Low Collector-Emitter Saturation Voltage
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

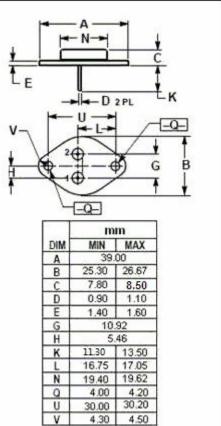
• Designed for general purpose amplifiers ,low frequency switching and motor control applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃) SYMBOL PARAMETER VALUE UNIT V_{CBO} Collector-Base Voltage 750 V VCEO Collector-Emitter Voltage 450 V Emitter-Base Voltage 6 V_{EBO} V Collector Current-Continuous lc 20 А Collector Current-Peak 30 Ісм А **Base Current- Continuous** I_B 10 А Collector Power Dissipation Pc 175 W @Tc=25℃ **Junction Temperature** 200 °C Tj Storage Temperature Range -65~200 °C Tstg

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	1.0	°C/W	



isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA, I _B = 0	450			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 10A ,I _B = 2A			1.8	V
VCE(sat)-2	Collector-Emitter Saturation Voltage	I _C = 20A ,I _B = 6.7A			5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	l _C = 10A ,I _B = 2A			1.8	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 450V, I _B =0			1	mA
Іево	Emitter Cutoff Current	V _{EB} = 6V; I _C =0			1	mA
h _{FE}	DC Current Gain	I _C = 5A ; V _{CE} = 5V	10		60	

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