

isc Silicon NPN Power Transistor

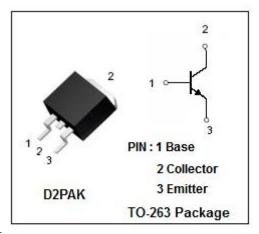
MJB41C

DESCRIPTION

- Lead formed for surface mount applications(NO suffix)
- Electrically the same as TIP41 series
- Pb-free package are available
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

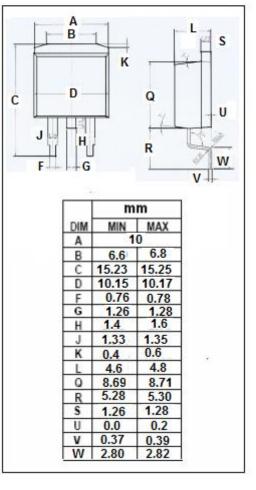
APPLICATIONS

· General purpose amplifier and switching applications



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
V_{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	6	А
I _{CP}	Collector Current-Pulse	10	А
I _B	Base Current	2	А
Pc	Total Power Dissipation @ Ta=25℃	2	W
Pc	Total Power Dissipation @ Tc=25℃	65	W
TJ	Junction Temperature	-65~150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)CEO} *	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	100			V
V _{CE(sat)*}	Collector-Emitter Saturation Voltage	I _C =6A; I _B = 600mA			1.5	V
V _{BE(on)*}	Base-Emitter On Voltage	I _C = 6A; V _{CE} =4V			2.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 60V; I _E = 0			0.7	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			50	uA
h _{FE1*}	DC Current Gain	I _C = 0.3A; V _{CE} = 4 V	30			
h _{FE2*}	DC Current Gain	I _C = 3A; V _{CE} = 4 V	15		75	
fτ	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V		3		MHz

^{*:}Pulse test PW≤300us,duty cycle≤2%

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