

isc Silicon NPN Power Transistor

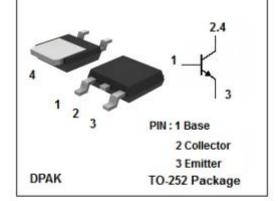
DESCRIPTION

- · Low collector saturation voltage
- · High current gain characteristics
- · Fast-switching speed
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



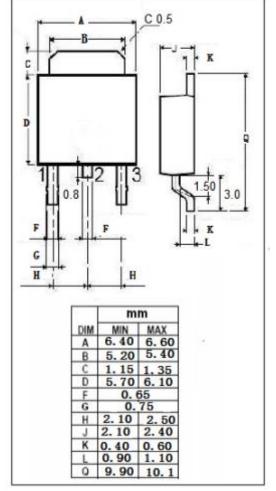
APPLICATIONS

Power amplifier application



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	40	٧	
Vceo	Collector-Emitter Voltage	32	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	2	Α	
P _C	Collector Power Dissipation (Ta=25°C)	1	W	
P _C	Collector Power Dissipation (Tc=25°C)	10	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	°C	





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FJD3076

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 200mA			0.8	V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 50uA; I _B = 0	40			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	32			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 50uA; I _C = 0	5			V
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1	uA
Ісво	Collector Cutoff Current	V _{CB} = 20V; I _E = 0			1	uA
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 3V	130		390	
f _T	Current-Gain—Bandwidth Product	I _C = 500mA; V _{CE} = 5V		100		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1.0MHz		50		pF

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