

ISC Silicon NPN Power Transistor

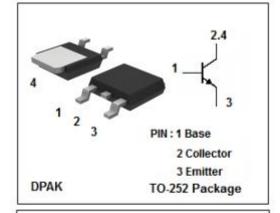
DESCRIPTION

- · 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



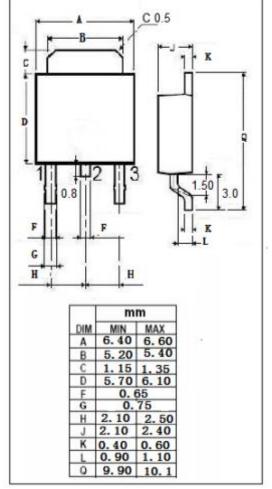
APPLICATIONS

Power amplifier application



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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





isc Silicon NPN Power Transistor

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

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.