

isc Silicon NPN Power Transistor

NJD35N04T4G

DESCRIPTION

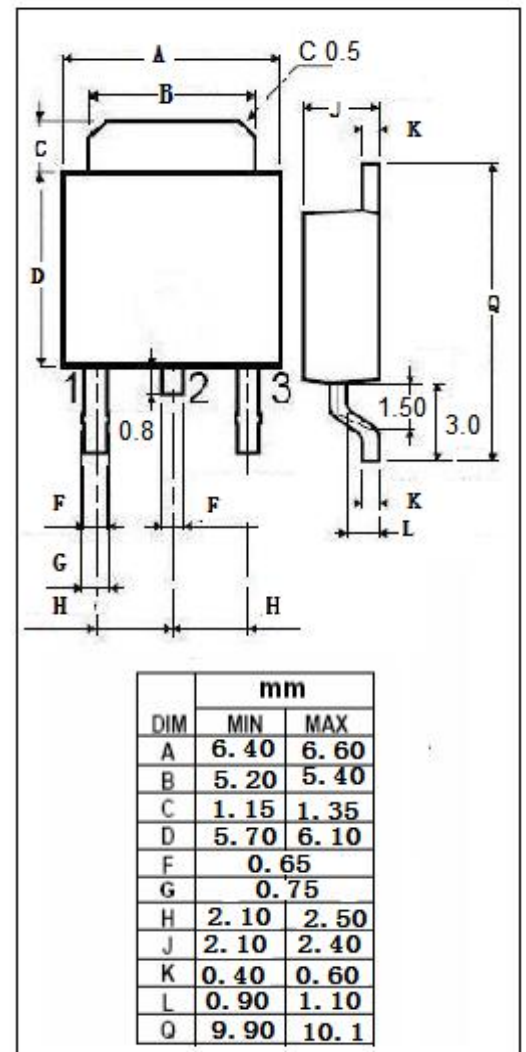
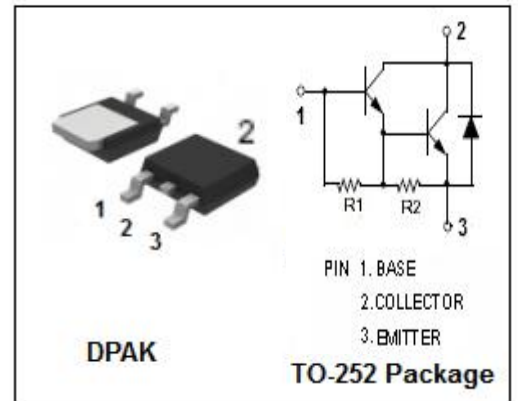
- With TO-252(DPAK) packaging
- Reliable performance at higher powers
- Designed for inductive loads
- Fast switching speed
- Very low current requirements
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Internal combustion engine ignition control
- Switching regulators
- Motor controls
- Light ballast
- Photo flash

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	700	V
V _{CEO}	Collector-Emitter Voltage	350	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current-Continuous	4	A
I _{CM}	Max.Collector Current-Continuous	8	A
I _B	Base Current-Continuous	0.5	A
P _D	Collector Power Dissipation @T _c =25°C	45	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C



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ELECTRICAL CHARACTERISTICS

 T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =0.1mA; I _E =0	700			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA; I _B =0	350			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =0.1mA; I _C =0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =2A; I _B =20mA			1.5	V
V _{BE(sat)}	Collector-Emitter Saturation Voltage	I _C =2A; I _B =20mA			2.0	V
V _{BE(on)}	Collector-Emitter On Voltage	I _C =2A; V _{CE} =2.0V			2.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 300V; I _B = 0			50	mA
I _{CES}	Collector Cutoff Current	V _{CB} = 500V; I _B = 0			50	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0			5	mA
h _{FE-1}	DC Current Gain	I _C = 2A ; V _{CE} = 2V	2000			
h _{FE-2}	DC Current Gain	I _C = 4A ; V _{CE} = 2V	300			

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