

ISC Silicon NPN Power Transistor

2SC3074

DESCRIPTION

- With TO-252(DPAK) packaging
- Excellent linearity of hFE
- · Low collector-to-emitter saturation voltage
- · Fast switching speed
- Complementary to 2SA1244
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DPAK



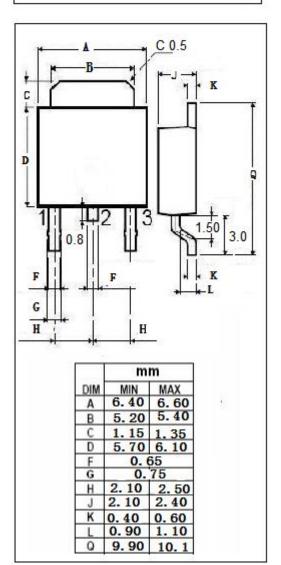
TO-252 Package

APPLICATIONS

• Relay drivers, high-speed inverters , converters and Other general high current switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	V		
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	А		
I _B	Base Current-Continuous 1		А	
Pc	Collector Power Dissipation	1		
	Collector Power Dissipation @T _C =25°C	20	W	
TJ	Junction Temperature 150		$^{\circ}$ C	
T _{stg}	Storage Temperature Range -55~150		°C	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA; I _B =0	50			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =3A; I _B =0.15A		200	400	mV
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =3A; I _B =0.15A		0.9	1.2	V
Ісво	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0			1.0	μА
h _{FE-1}	DC Current Cain	I _C = 1A; V _{CE} = 1V	70		240	
h _{FE-2}	DC Current Cain	I _C = 3A ; V _{CE} = 1V	30			

♦ h_{FE-1}Classifications

0	Y
70-140	120-240

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