

isc Silicon NPN Power Transistor

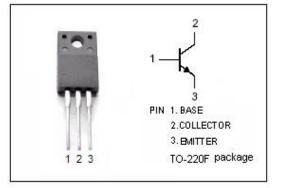
2SC4075

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 300V(Min)
- Wide Area of Safe Operation
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

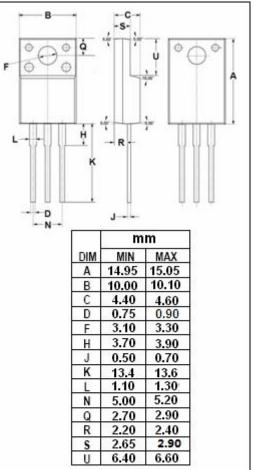
APPLICATIONS

· Designed for color TV chroma output, sound output and B/W TV video output, audio output applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)					
SYMBOL	PARAMETER	VALUE	UNIT		
V _{CBO}	Collector-Base Voltage	300	v		
V _{CEO}	Collector-Emitter Voltage	300	V		
V _{EBO}	Emitter-Base Voltage 7		V		
lc	Collector Current-Continuous	0.2	A		
I _{CM}	Collector Current-Peak	0.7	A		
Pc	Collector Power Dissipation @T _c =25°C	10			
	Collector Power Dissipation @Ta=25°C	2	W		
TJ	Junction Temperature	150	°C		
T _{stg}	Storage Temperature	-55~150	°C		

AE



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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	300			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA; I _B = 5mA			2.0	V
І _{сво}	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			0.1	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	μA
h _{FE}	DC Current Gain	Ic= 10mA; Vce= 10V	40		200	
Сов	Output Capacitance	I _E = 0; V _{CB} = 50V; f= 1MHz			5.3	pF
fT	Current-Gain—Bandwidth Product	Ic= 10mA; V _{CE} = 30V	50			MHz

h_{FE} Classifications

С	D	E
40-80	60-120	100-200

NOTICE:

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