

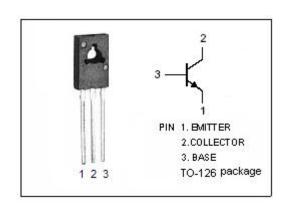
ISC Silicon NPN Power Transistor

DESCRIPTION

- · High Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 200V (Min)
- Complement to Type 2SA1352
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

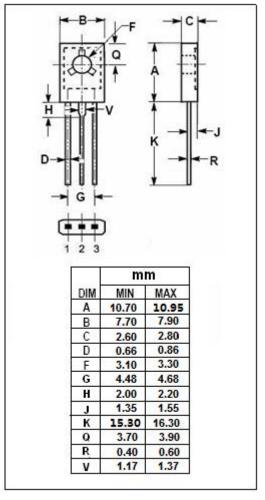
APPLICATIONS

• Designed for color TV chroma output, high-voltage driver applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	200	V	
V _{CEO}	Collector-Emitter Voltage	200	V	
V _{EBO}	Emitter-Base Voltage	5.0	V	
lc	Collector Current-Continuous	0.1	Α	
I _{CM}	Collector Current-Peak	0.2	А	
Pc	Collector Power Dissipation @ T _a =25°C	1.2	W	
	Total Power Dissipation @ T _C =25°C	5		
Тл	Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





isc Silicon NPN Power Transistor

2SC3416

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	Ic= 10 μ A; I _E = 0	200			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; R _{BE} = ∞	200			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10 μ A; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 20mA; I _B = 2mA			0.6	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 20mA; I _B = 2mA			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 150V; I _E = 0			0.1	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			0.1	μА
h _{FE}	DC Current Gain	I _C = 10mA ; V _{CE} = 40V	40		320	
fτ	Current-Gain—Bandwidth Product	Ic= 10mA ; VcE= 30V		70		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 30V; f= 1.0MHz		1.7		pF

♦ h_{FE} Classifications

С	D	E	F
40-80	60-120	100-200	160-320

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.

isc website: www.iscsemi.com

isc & iscsemi is registered trademark