

isc Silicon NPN Pow Transistor

2SC2383

DESCRIPTION

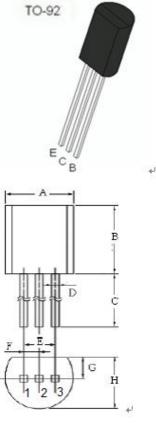
- High breakdown voltage
- Low output capacitance
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Color TV class B sound output applications
- Color TV vert.deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25 °C)

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SYMBOL	PARAMETER	VALUE	UNIT		
V _{CBO}	Collector-Base Voltage	160	V		
V _{CEO}	Collector-Emitter Voltage	160	V		
V _{EBO}	Emitter-Base Voltage	6	V		
lc	Collector Current-Continuous	1	A		
le	Emitter Current-Continuous	1	А		
Pc	Collector Power Dissipation @Tc=25°C	0.9	W		
TJ	T _J Junction Temperature		°C		
T _{stg}	Storage Temperature Range	-55~150	°C		



	mm		
DIM	MIN	MAX	
A	4.7	5.1 +	
В	7.8	8.0	
с	13.8	14.0	
D	0.6	1.0	
E	2.5	54	
F	1.27		
G	1.1 +2	1.3 e	
н	3.6	4.0 ·	

1



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{CBO}	Collector-base breakdown voltage	$I_{\rm C} = 500 \mu A$, $I_{\rm E} = 0$	160			v
BV _{CEO}	Collector-emitter breakdown voltage	$I_{\rm C} = 10 {\rm mA}, \ I_{\rm B} = 0$	160			v
BV _{EBO}	Emitter-base breakdown voltage	$I_{\rm E} = 500 \mu A$, $I_{\rm C} = 0$	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 500mA ; I _B = 50mA			1.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 5mA ; V _{CE} = 5V			1.2	V
I _{Сво}	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			1	μA
I _{EBO}	Emitter cut-off current	$V_{EB} = 5V, I_C = 0$			1	μA
h _{FE}	DC Current Gain	I _C = 200mA ; V _{CE} = 5V	60		320	
fT	Current-Gain—Bandwidth Product	I _C = 200mA ; V _{CE} = 5V		20		MHz

hFE Classification

Classification	R	0	Y
hFE	60-120	100-200	160-320

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