

isc Silicon NPN Power Transistor

2SD1432

DESCRIPTION

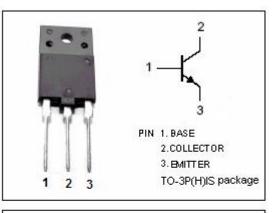
- High Breakdown Voltage-
- : V_{CBO}= 1500V (Min)
- High Switching Speed
- Low Saturation Voltage
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

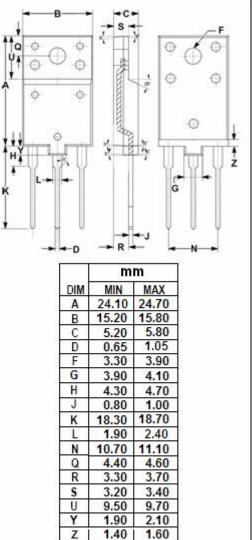
APPLICATIONS

Color TV horizontal deflection output applications

SYMBOL	PARAMETER	VALUE	UNIT	
V _{сво}	Collector-Base Voltage	1500	V	
Vceo	Collector-Emitter Voltage	600	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ιc	Collector Current- Continuous	6	A	
lE	Emitter Current	6	A	
Pc	Collector Power Dissipation @ Tc=25℃	80	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A		3.0	5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 1000V; I _E = 0			10	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	mA
h _{FE}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	8			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A ; V _{CE} = 10V		3		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f _{test} =1.0MHz		165		pF
t _f	Fall Time	I _C = 5A , I _B = 1A			1.0	μ S

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