

isc Silicon NPN Power Transistor

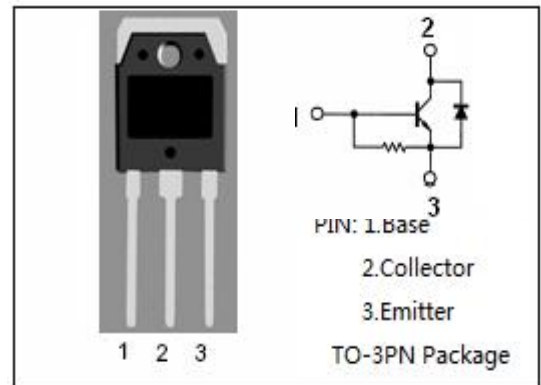
2SD1426

DESCRIPTION

- High Breakdown Voltage
- High Switching Speed
- Built-in damper diode
- Low Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

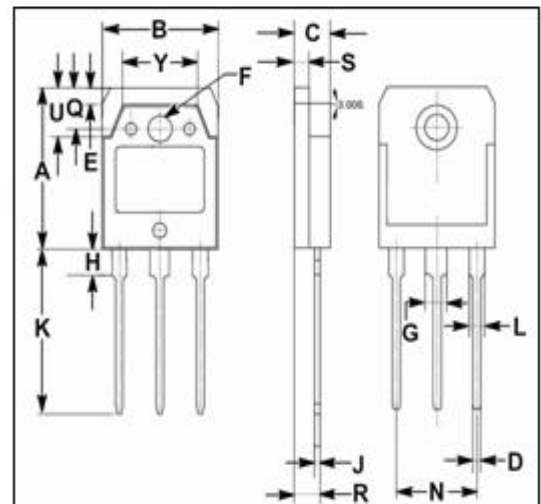
APPLICATIONS

- Designed for use in horizontal deflection circuits of colour TV receivers.



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	600	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current-Continuous	3.5	A
I _B	Base Current-Continuous	1.0	A
P _C	Collector Power Dissipation @T _C =25°C	80	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55-150	°C



DIM	mm	
	MIN	MAX
A	19.60	20.30
B	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	19.80	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.20
Y	9.90	10.10

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.56	°C/W

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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.8A			8.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.8A			1.5	V
h _{FE}	DC Current Gain	I _C = 0.5A ; V _{CE} = 5V	8			
I _{CBO}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μ A
f _T	Transition Frequency	I _C = 0.1A ; V _{CE} = 10V; f= 1MHz		3		MHz
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		95		pF
V _{ECF}	C-E Diode Forward Voltage	I _F = 3.5A			2.0	V
t _f	Fall Time	I _C = 3A; I _{B1} = 0.8A			1.0	μ s

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