

isc Silicon NPN Power Transistors

2SD5702

DESCRIPTION

- · High Breakdown Voltage-
- : V_{CBO}= 1500V (Min)
- · High Switching Speed
- · High Reliability
- · Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

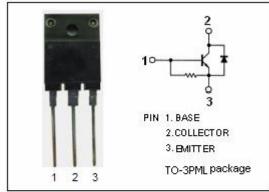


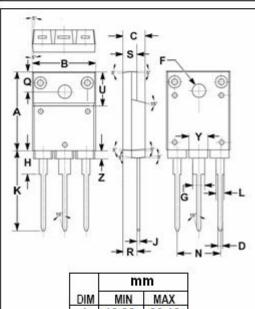
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	1500	V
Vceo	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	6	А
Ісм	Collector Current-Peak	16	Α
Pc	Collector Power Dissipation @T _C =25℃	60	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature -55~		$^{\circ}$





	mm	
DIM	MIN	MAX
Α	19.90	20.10
В	15.75	16.10
С	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
Н	5.90	6.10
J	0.595	0.70
K	21.10	22.50
L	1.90	2.25
N	10.80	11.00
0	4.90	5.10
R	3.75	3.95
S	3.20	3.60
U	9.90	10.10
Y	4.20	4.90
Z	1.90	2.10



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4.0A; I _B = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4.0A; I _B = 0.8A			1.5	V
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C =0	40		200	mA
І _{сво}	Collector-Base Cutoff Current	V _{CB} =800V; I _E = 0			10	uA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	10		30	
h _{FE-2}	DC Current Gain	Ic= 3A; Vc== 5V	5		15	
f _T	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 10V		3		MHz
V _{ECF}	C-E Diode Forward Voltage	I _F = 6A			2.0	V
tf	Fall Time	Ic= 4A, I _{B1} = 0.8A; I _{B2} = -1.6A R _L = 50 Ω; V _{CC} = 200V			0.4	us

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