

isc Silicon NPN Power Transistor

DESCRIPTION

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

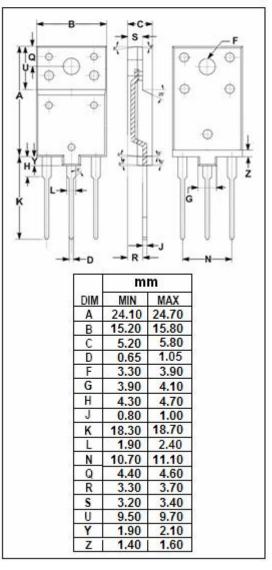
PIN 1. BASE 2.COLLECTOR 3. BMITTER 1 2 3 TO-3P(H)IS package

APPLICATIONS

· Color TV horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage 150		V
V _{CEO}	Collector-Emitter Voltage 600		٧
V _{EBO}	Emitter-Base Voltage 5		٧
Ic	Collector Current- Continuous 3.5		А
I _{CP}	Collector Current- Pulse		Α
I _B	Base Current- Continuous	Continuous 1	
Pc	Collector Power Dissipation @ T _C =25℃	40	W
TJ	Junction Temperature	150	$^{\circ}\!$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$





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2SD2599

ELECTRICAL CHARACTERISTICS

T_c=25℃ 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
Ісво	Collector Cutoff Current	V _{CB} = 1500V; I _E = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0	66		200	mA
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	8		25	
V _{ECF}	C-E Diode Forward Voltage	I _F = 3.5A			2.0	V
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		55		pF
t _f	Fall Time				1.0	μs

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